



TECHNICAL 023EN **ekinex**

.....  
INTRODUCTION  
.....

The Company	07
The automation of buildings	09
The KNX standard	10
The advantages	12
The Ekinex® devices	15



## We believe

**in technology that makes life easier.**

We develop devices that make everyday gestures easier.

Our scenario is the whole world.

## We want

**to combine technology and design.**

To give life to something unique that combines

two seemingly distant worlds.



## The Company

### Technology meets design.

We offer a form without ever leaving aside its content. We present a product with a strong technological content which is also cutting edge from an aesthetic point of view. Design becomes the driving force behind technology, the key to opening our doors to the world of smart homes. We use the potential of the KNX system to guarantee high quality standards for a project we have called Ekinex®.

### Our devices are developed and manufactured in Italy.

Ekinex® has created a line of objects that encloses the essence of the Made in Italy: design, attention to detail, technological innovation and advancement. Designed for a global market, Ekinex® products are an expression of the new Italian tradition, which combines the attention of craftsmanship in the creation of the product to high technological levels. Ekinex® supports the idea of a design that is not just an aesthetic exercise, but one that understands, as fundamental factors, ease of use, immediate understanding of the function and the balanced and intelligent application of technology.



## The automation of buildings

**Ekinex® is an intelligent system for controlling homes and buildings, developed in accordance with the open KNX standard.** Having an Ekinex® system means **to increase comfort and safety, reduce energy consumption and raise the long-term value of a building** using products characterized by fine aesthetics and a great simplicity of use.

**Setting up an Ekinex® system is easy:** a signal network is arranged at project level, reaching all those areas where commands, sensors or loads to be system-controlled are expected. The arrangement, achieved by means of a simple signal cable, represents an authentic network for the exchange of information between Ekinex® devices.

The scalability, typical of Ekinex® building control systems, even allows to start off with a basic equipment, both in terms of functions and devices, which may be extended at a later stage, depending on individual requirements, the location's infill and economic availability. **The investment is quickly paid back, and is protected in time.** Thanks to the native openness and interoperability of the KNX standard, the system can even integrate functions that may not be available within the Ekinex® range of products.



**500** MEMBERS  
**30** YEARS OF EXPERIENCE  
**45** NATIONAL GROUPS  
**8000** PRODUCTS  
**108000** PARTNERS IN 180 COUNTRIES  
**500** TRAINING CENTRES IN 72 COUNTRIES

## The KNX standard

Great developments in the field of home and building automation were made possible especially thanks to an open, modular and interoperable standard like KNX. This innovative standard was born from the merging of three European systems (EIB, BatiBUS and EHS), developed and brought to the market in the early 90's. The diffusion of the system was facilitated by an intense work of cooperation at normative level in the standard committee at European level. For this reason, too, **KNX is a standard characterized by a total conformity with norm EN 50090** on electronic systems for the control of homes and buildings (HBES, Home and Building Electronic Systems).

The twenty-year presence on the market of this standard offers the best guarantee in terms of reliability and consolidation of the technology used. The openness of the standard and that of the KNX Association, on the other hand, ensure availability of products in the long run and a constant development, both in terms of technology and offering of products, functions and applications.

The vitality of KNX proposals is witnessed by the sustained expansion of the association, seeing the entry of manufacturers, coming from many different areas, and from the tens of thousands of technicians who chose it to specialize in the field of building automation.

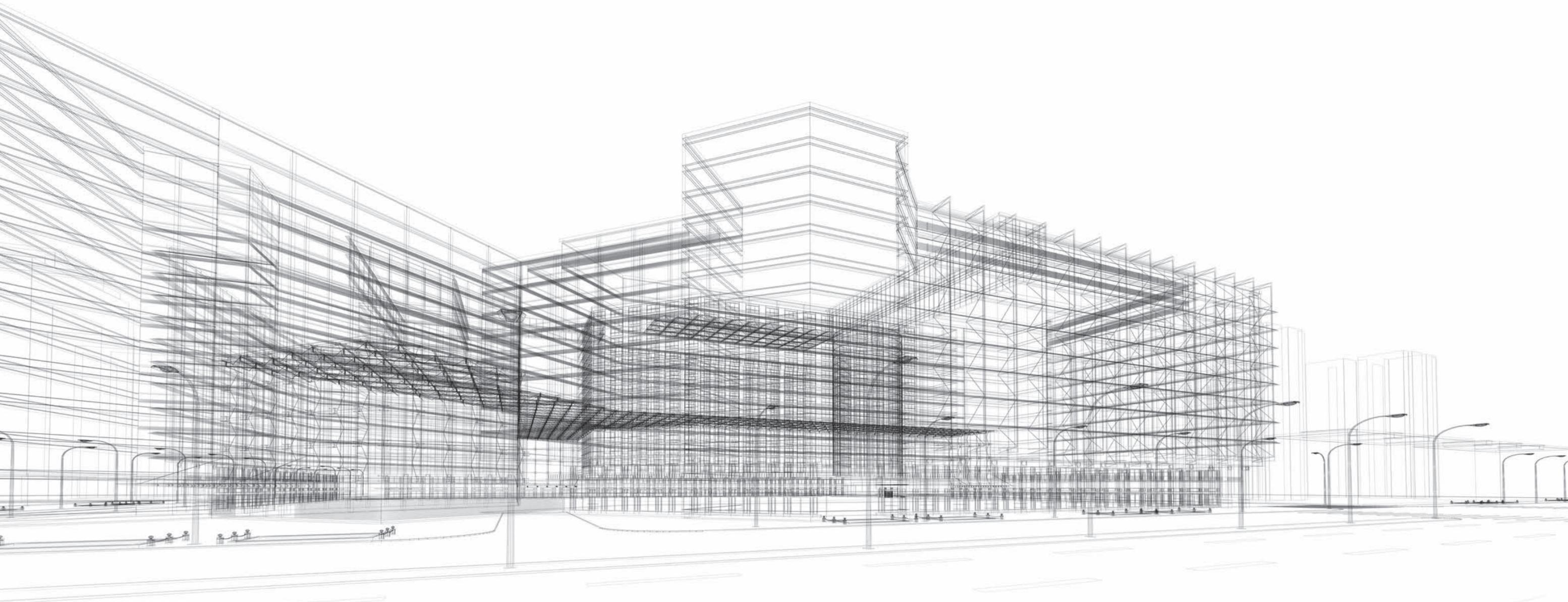
**Achievable savings with the adoption of the KNX system for Home & Building control:**

- 40% over shutters control**
- 50% over individual ambient control**
- 60% over ambient lighting control**
- 60% over ventilation control**

**For customers, the variety and availability of KNX products has no comparison in other technological areas**, and the system openness translates into the highest free choice, thereby avoiding the disadvantageous dependence of having to buy from a single supplier. Thanks to the modularity of the system, a project can be extended in time, starting with a basic configuration and adding more functions later. **The native interoperability of KNX products is fundamental to technicians**, as it allows to design a system by always choosing the most suitable technical options, reducing compromise and ties caused by isolated systems which do not converse with one another. **Moreover, the system offers new professional opportunities to designers and system integrators, making it possible to receive a consistent and high-level technical training and become certified KNX Partners.**



The KNX standard is entirely compliant with norm EN 50090 on HBES (Home and Building Electronic Systems) systems)



## The advantages

Design, realize and use a home & building control plant with the KNX system has many advantages.

### Designer

- Compliant, open, interoperable system
- Can be used in all types of buildings, from small residential to large service industry ones
- Devices, from over 300 manufacturers, communicating between each other in native mode
- Constant expansion of available functions and applications
- System design by means of standard software (ETS), manufacturer-independent
- Easy realization of commands, controls, supervisions and displays
- Wide availability of complex logic
- Interfacing towards numerous other systems, protocols and standards
- Simple logic connections between functions and devices
- Large choice of device parametrizing options based on single requirements
- Reduction of building's fire load
- Certified training, standardized and available worldwide

### Installer

- Reduced device assembly and cabling times
- Unique, fast connection system (cable and bus terminal block) for all manufactures
- High quality and reliability of products (consolidated system)
- Configuration and service commissioning by means of standard, manufacturer-independent software (ETS)
- Speed and flexibility in the expansion and the modification of use
- Remote access for maintenance and diagnosis interventions
- Reduction of cables needed for command, control and distribution circuits
- Certified training, standardized and available worldwide
- Opportunities for professional advancements
- Access to the world of innovative systems

### User

- Large choice of products
- High comfort, great operation safety
- More information, verification of own consumption habits
- Coordinated working of all building systems
- Multifunctional deployment of several devices
- System scalability and modularity
- Easy upgrading, without needing interventions on cabling nor masonry works
- Independence from single manufacturer
- More efficient building energy class (as per EN 15232)
- Easy system adaptations in case of changing needs
- Time-protected investment (open system)
- Building increase in value



## The Ekinex® devices

**The range of Ekinex® KNX devices includes system devices, devices dedicated to single application functions and accessories.** System devices allow basic operation of the bus system, while the devices dedicated to single application functions are developed specifically to execute the command, control and/or monitoring the technical systems in the building, like lighting, heating or shading.

They include switching, control and display units, sensors and actuators, etc. **Each device is fitted internally with a communication module linking to the KNX bus.** All devices are realized in multiple mounting versions (protruding or recessed walls, electric cabinets or panels on DIN rails as per EN 60715) in accordance with their destination of use and with the main installation modality. The KNX certification guarantees the interoperability among the devices of different KNX manufacturers. The entire procedure is disciplined by the certification system developed by the KNX Association and is based on conformity tests carried out by third-party laboratories. The tests verify that the devices support the KNX protocol and that any information is coded in accordance with KNX specifications

**The presence of a KNX trademark on Ekinex® devices is a guarantee for the customer:**

- Ekinex® respects the quality management system in accordance with ISO 9001;
- The devices are compliant with the European norm EN 50090-2-2, concerning fundamental aspects like electromagnetic compatibility, electrical safety and environmental conditions of use;
- They comply with indications in volumes 3 and 6 of KNX specifications;
- They comply with KNX interoperability requirements concerning standardized data type and functional blocks.

# WALL-MOUNT DEVICES

<b>Signum</b>	<b>19</b>	<b>Sensors</b>	<b>139</b>
Pushbuttons	27	Movement sensor	142
		Presence sensor	143
<b>20venti series</b>	<b>33</b>	<b>Power sockets / keystone system</b>	<b>147</b>
Pushbuttons	43	Power sockets and USB	150
		Keystone system	166
<b>FF series</b>	<b>49</b>	<b>Accessories</b>	<b>177</b>
Pushbuttons	63	Rockers and front covers	178
Room thermostats	71	Thermoformed covers	184
Display Touch&See	79	Frames	185
		Plates and adapters	188
<b>71 series</b>	<b>83</b>	Templates	198
Pushbuttons	97	Mounting supports	200
Room thermostats	105		
Multisensors	108	<b>Swiss market</b>	<b>202</b>
		Material and finishes	212
<b>Voice assistant</b>	<b>113</b>	Fenix NTM®	213
Voice assistant	119	Orders and symbols	214
<b>Hotel solutions</b>	<b>123</b>		
Card reader	130		
Card holder	131		
Cards programmer	132		
Accédo software	134		
Smart card	135		
Tosibox®	136		



.....  
SIGNUM  
.....  
WALL-MOUNT DEVICES

Deep	22
Surface	24





## Signum Deep

WALL-MOUNT DEVICES  
COMING SOON

New KNX standard “virtual” pushbutton controls with graphic colour display, haptic feedback, touch interface, borderless display, Bluetooth LE (Low Energy) for customising text and graphics from mobile device apps. In perfect family feeling with the 20venti Deep series.

### Available colour solutions

	Deep	Surface
		Plate
Plastic	-	-
Metal	•	•
Metal HT	•	•
Fenix NTM®	•	•

For more information see page 212





## Signum Surface

WALL-MOUNT DEVICES  
COMING SOON

New KNX standard “virtual” pushbutton controls with graphic colour display, haptic feedback, touch interface, borderless display, Bluetooth LE (Low Energy) for customising text and graphics from mobile device apps. In perfect family feeling with the 20venti Surface series.

### Available colour solutions

	Deep	Surface*
	Plate	
Plastic	-	-
Metal	•	•
Metal HT	•	•
Fenix NTM®	•	•

\* The Fenix NTM® colour effect on the Surface plate is achieved by painting  
For more information see page 212



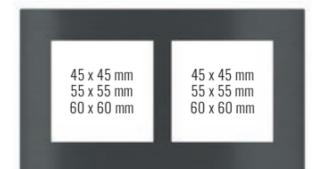
98 x 98 x 3 mm



30 x 60 mm  
45 x 45 mm  
55 x 55 mm  
60 x 60 mm



68 x 45 mm  
55 x 55 mm  
60 x 60 mm



45 x 45 mm  
55 x 55 mm  
60 x 60 mm

98 x 98 x 3 mm

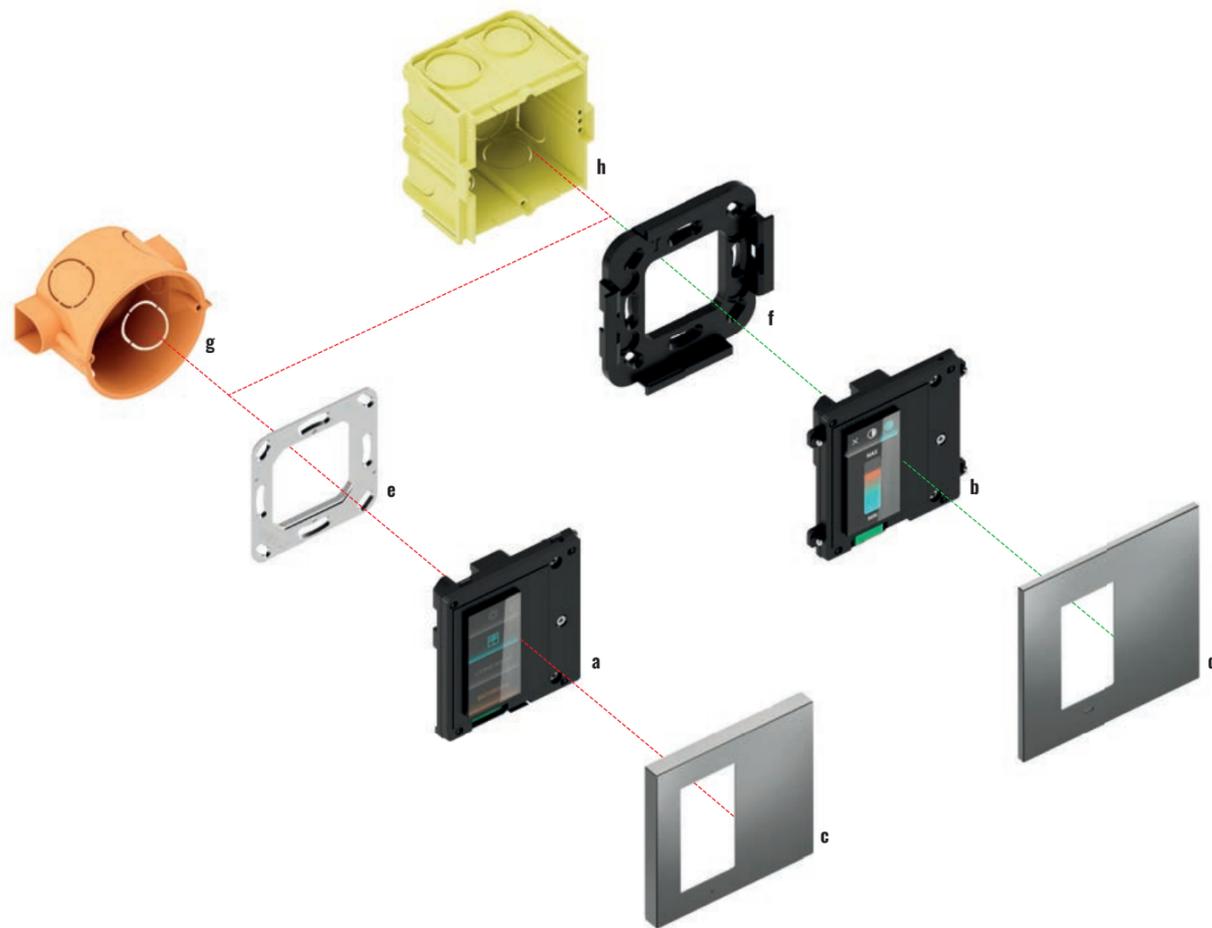
133 x 98 x 3 mm

168 x 98 x 3 mm

# Pushbuttons Signum

WALL-MOUNT DEVICES

COMING SOON



### Signum

Description	Code
a) Signum pushbutton Deep version	EK-EV2-TP
b) Signum pushbutton Surface version	EK-EV2-TP-S
c) Square plate Deep version (30 x 60 mm window)	EK-DQV-...
d) Square plate Surface version (30 x 60 mm window)	EK-SQV-...
e) Metal mounting support Deep version	EK-SMQ-71-S
f) Mounting support Surface version (included in delivery)	
g) Round flush-mounting box	not delivered by Ekinex®
h) Square flush-mounting box	not delivered by Ekinex®



The "virtual" pushbutton controls of the Signum series and their accessories offer the possibility of numerous variants to meet the most diverse requirements.



The EK-EV2-TP "virtual" pushbutton, which contains a KNX communication module inside, is suitable for mounting on a round or square wall flush-mounting box, provided with fixing holes with a centre distance of 60 mm. Each button is supplied with a metal mounting bracket, which can also be ordered separately if required; a terminal for connection to the bus line completes the supply.

The pushbutton is completed with a Deep or Surface version plate. The 2.65", 162 x 320 pixel, 262K colours IPS RGB touch borderless display with haptic feedback can be configured to manage up to 4 buttons per screen and up to 3 screens in total. Each button can be customised via a dedicated app and certain attributes of each button can be changed even after installation, e.g. position, symbols and lettering. The pushbutton also offers the function of a room thermostat, thanks to the integrated temperature sensor. The proximity sensor integrated in the faceplate (to be ordered separately) provides visual comfort at night.

Configuration and commissioning of the devices is carried out using ETS® software; the relevant application programmes can be downloaded from [www.ekinex.com](http://www.ekinex.com).





## Pushbuttons Signum

WALL-MOUNT DEVICES  
COMING SOON

### Description

“Virtual”KNX-standard button, i.e. based on a borderless IPS touch display, in which each button can be customised via a dedicated app. It is possible to modify certain attributes of each button even after installation, e.g. position, symbols and lettering.

### Main features

- Up to 4 buttons per screen and up to 3 screens in total can be configured
- Haptic pressure feedback
- Control and dimming of lighting devices
- Control of motorised drives (such as roller shutters, awnings blinds or shutters)
- Partially programmable attributes for each button
- 2.65" IPS RGB display, 162 x 320 pixels, 262K colours with haptic feedback
- Bluetooth BLE module for connection to programming app
- Room temperature detection via integrated sensor
- Proximity sensor integrated in the faceplate (to be ordered separately)
- Room thermostat function
- Connection to bus line via KNX terminal
- Recessed wall mounting on round or square box
- Configuration via App

### Technical data

- 30 Vdc power supply via KNX bus
- Stand-by current consumption: 8 mA @30Vdc / max: 35 mA @30Vdc
- Wall mounting on round or square box
- IP20 degree of protection (installed)
- Plastic housing
- Climatic classification 3K5 and mechanical classification 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Dimensions: 83 x 77 x 37 mm
- Operating temperature: 5... + 45°C
- Storage temperature: 25... + 55°C
- Transport temperature: 25... + 70°C
- Relative humidity: 95% non-condensing

### Delivery

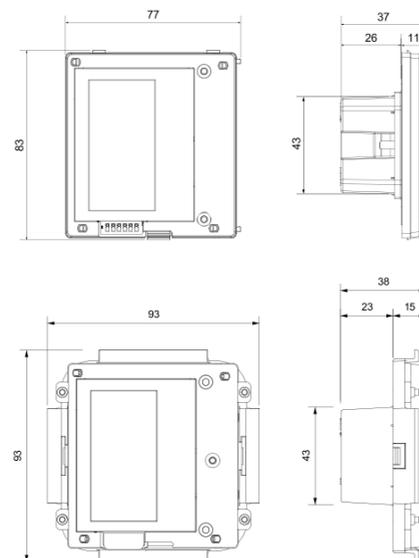
Delivery includes a terminal block for connection to the bus, a plastic adapter, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart), two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- square plate of the Deep or Surface version with 30 x 60 mm window

### Dimensions [mm]

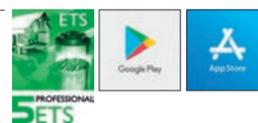


### Order information

Code	Version	Mounting
EK-EV2-TP	Deep	without frame
EK-EV2-TP-S	Surface	
Code	Voucher	
EK-EV2-V1-TER	Voucher to enable graphic display of thermostat function	
EK-EV2-V1-AUD	Voucher to enable the graphic display of the audio function	

### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKEV2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



### 1 button page

The extreme flexibility of the pushbutton panel allows the buttons for each individual screen to be organised in 3 different ways: single button, double button and quadruple button. To best suit any requirement.



### 2 buttons page

To best reflect every possible environment, each button can be customised with text, symbols and colours.



### 4 buttons page

Pushbuttons can be used to control devices lighting devices, scenarios and motorised drives. A long press can call up graphic pages for precise control of home automation elements.



### Brightness control page

The graphic slider allows precise control of motorised or luminescent drives in percentages.



### Colour temperature adjustment page

It is possible to enable a dedicated page for controlling the hue of the light emitted by a light source. Switching from a cool colour to a warmer one will provide a completely different atmosphere.



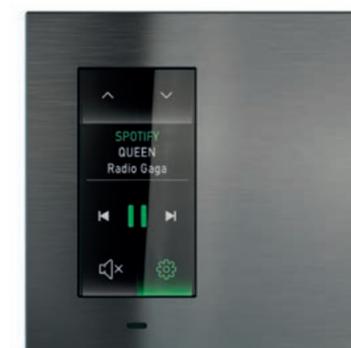
### Motorisation control page

The motorisation page allows you to control motorised locking elements using the up and down buttons.



### Room thermostat page

The thermostat page, designed to be simple and intuitive, allows the room temperature to be monitored and the desired temperature to be controlled.



### Audio page

The audio page allows you to select an audio source, change the track currently playing and to raise or lower the volume.



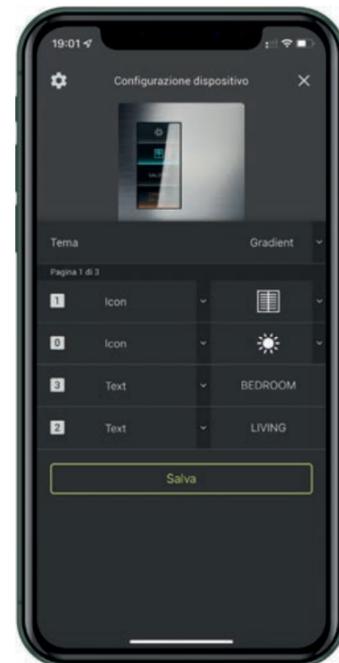
### Audio settings page

The audio settings page also allows control the volume level and equalisation of treble and bass. treble and bass equalisation.



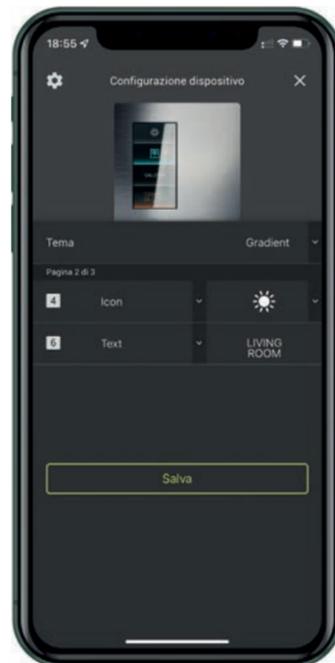
**EKINEX TOOL™ APP CONFIGURATION  
Main Page**

From the main page, you can select the theme (Gradient or Flat) and customise the texts and symbols of the virtual buttons.



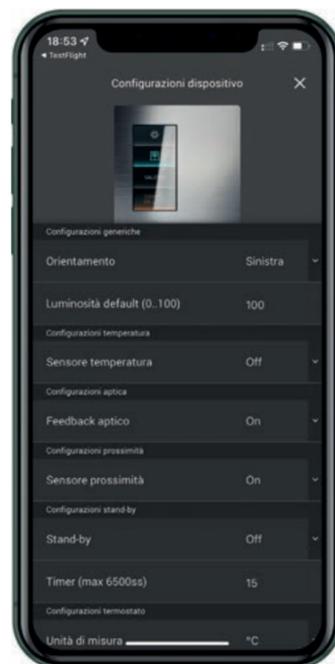
**EKINEX TOOL™ APP CONFIGURATION  
Pushbutton customisation page**

With a horizontal swipe you can scroll between the screens of the device and customise the related pushbuttons.



**EKINEX TOOL™ APP CONFIGURATION  
Symbol library page**

The application gives access to a continuously updated library of 120 symbols.



**EKINEX TOOL™ APP CONFIGURATION  
Settings page**

From the settings page, the main operating parameters of the device can be configured: display brightness, sensor enablement haptic feedback and stand-by time.



RELAX

KITCHEN

PLAYER

ALL OFF

20VENTI SERIES

WALL-MOUNT DEVICES

Deep	36
Surface	38





## 20venti Deep

WALL-MOUNT DEVICES

**Intuition, flexibility and continuous growth.** 20venti series in its Deep version represents an evolution of the compact and essential design of 71 series, enriched with new features that facilitate the recognition of functions from the first use. The materials used are plastic, metal, Metal HT and the nanotechnological Fenix NTM®.

### Available colour solutions

	Deep	Surface	Rockers
	Plate		
Plastic*	•	-	•
Metal	•	•	-
Metal HT	•	•	-
Fenix NTM®	•	•	-

\*Not available on plate with 30x60 mm window  
For more information see page 212



87 x 87 x 9 mm



87 x 87 x 9 mm



87 x 87 x 9 mm



87 x 87 x 9 mm



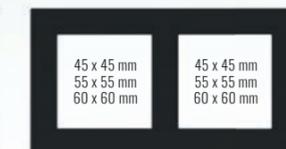
30 x 60 mm  
45 x 45 mm  
55 x 55 mm  
60 x 60 mm

87 x 87 x 9 mm



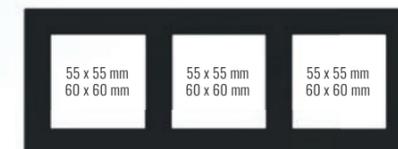
68 x 45 mm  
55 x 55 mm  
60 x 60 mm

128 x 87 x 9 mm



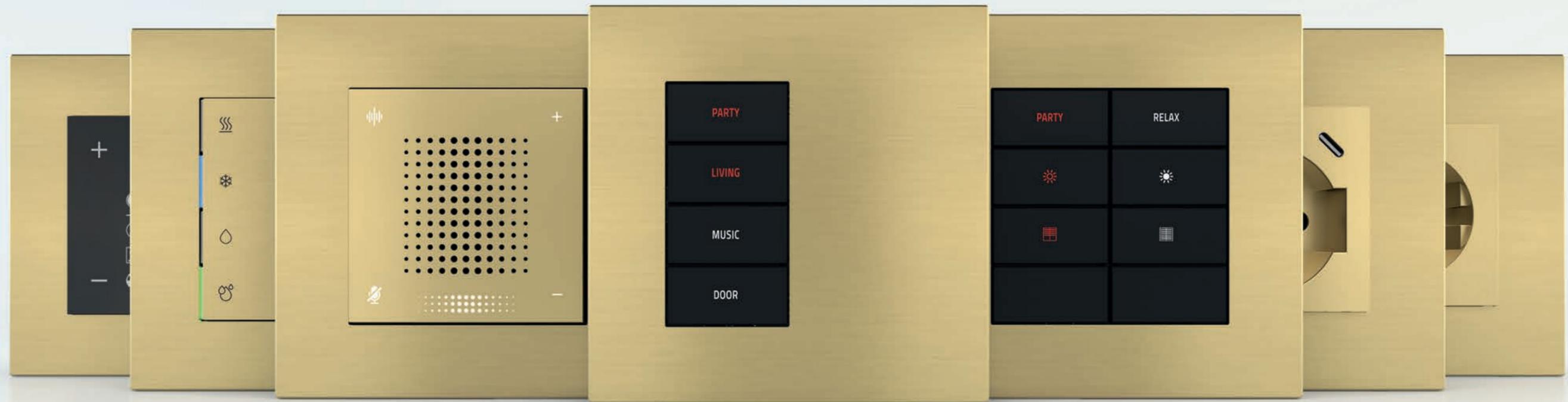
45 x 45 mm  
55 x 55 mm  
60 x 60 mm

158 x 87 x 9 mm



55 x 55 mm  
60 x 60 mm

229 x 87 x 9 mm  
3 windows 55 x 55 mm or 3 windows 60 x 60 mm



## 20venti Surface

WALL-MOUNT DEVICES

**Essentiality and functionality in a single product.** 20venti series in its Surface version represents an evolution of the compact and essential design of 71 series but is enriched with new features that make it easier to recognize the functions of the keyboard from the first use. The materials used are plastic, metal, Metal HT and the nanotechnological Fenix NTM® that make it a contemporary proposal that finds its place in homes, offices and hotels.

**Available colour solutions**

	Surface		Rockers
	Deep	Plate	
Plastic	•	-	•
Metal	•	•	-
Metal HT	•	•	-
Fenix NTM®	•	•	-

For more information see page 212



98 x 98 x 3 mm

30 x 60 mm  
45 x 45 mm  
55 x 55 mm  
60 x 60 mm

68 x 45 mm  
55 x 55 mm  
60 x 60 mm

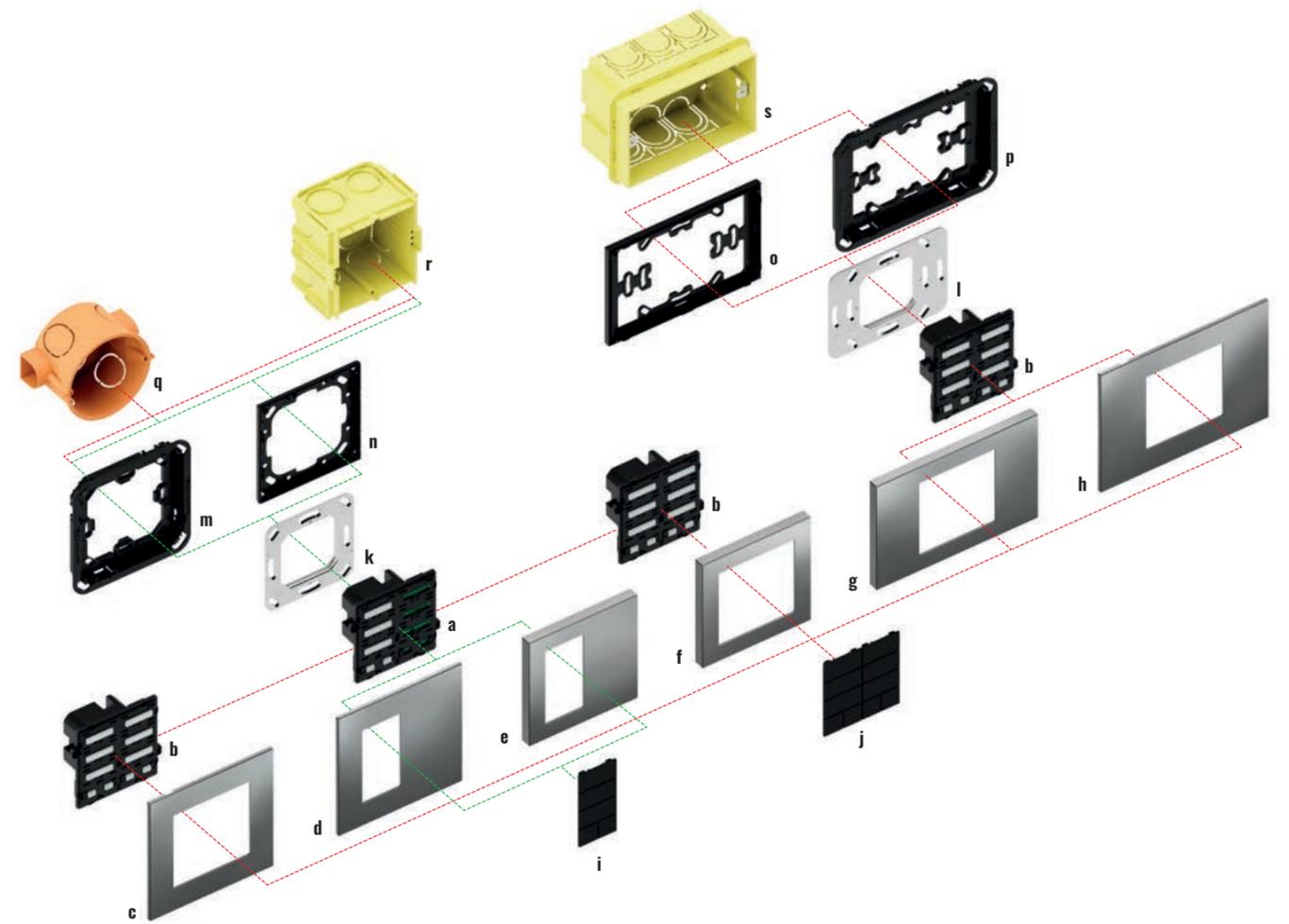
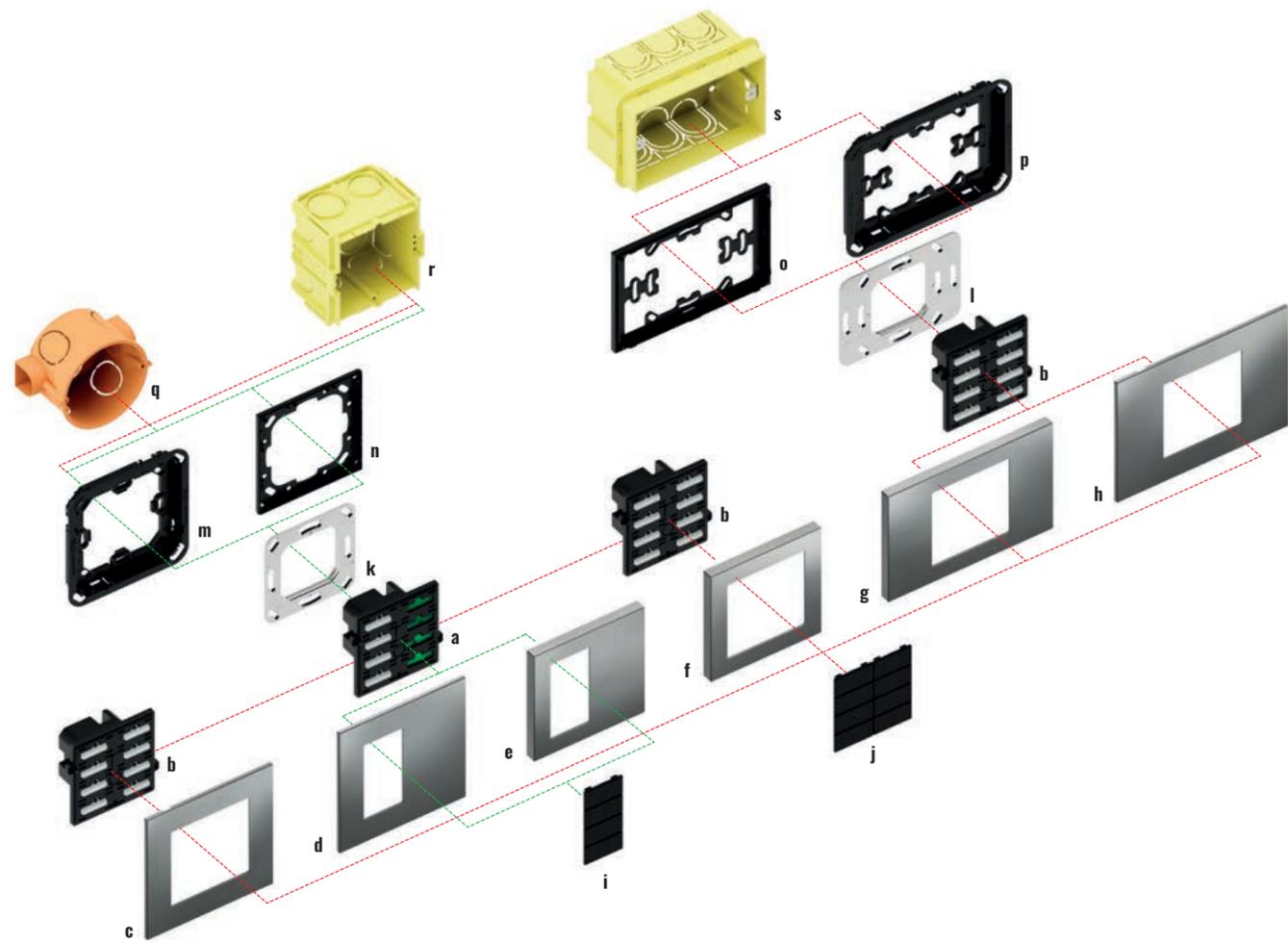
45 x 45 mm  
55 x 55 mm  
60 x 60 mm

45 x 45 mm  
55 x 55 mm  
60 x 60 mm

98 x 98 x 3 mm

133 x 98 x 3 mm

168 x 98 x 3 mm



**Pushbuttons 20venti series with backlit text/symbols and proximity sensor (4/8 rockers)**

Description	Code
a) Pushbuttons 20venti series with backlit text/symbols and proximity sensor 4 rockers	EK-E20-TP-4TS-PN
b) Pushbuttons 20venti series with backlit text/symbols and proximity sensor 8 rockers	EK-E20-TP-8T-PN
c) Square plate Surface version (60 x 60 mm window)	EK-SQS-...
d) Square plate Surface version (30 x 60 mm window)	EK-SQT-...
e) Square plate Deep version (30 x 60 mm window)	EK-DQT-...
f) Square plate Deep version (60 x 60 mm window)	EK-DQS-...
g) Rectangular plate Deep version (60 x 60 mm window)	EK-DRS-...
h) Rectangular plate Surface version (60 x 60 mm window)	EK-SRS-...
i) Rectangular rockers (4 pcs)	EK-T4R-20-BT...

Description	Code
j) Rectangular rockers (8 pcs)	EK-T4R-20-BT...
k) Metal mounting support	EK-SMQ-71-1
l) Metal mounting support with adapter	EK-SMR-71-1
m) Adapter for square Surface plate	EK-TAS-Q-1
n) Adapter for square plate 'NF and Deep version	EK-TAQE-1-NF
o) Adapter for rectangular plate 'NF and Deep version	EK-TAR-1-NF
p) Adapter for Surface rectangular plate	EK-TAS-R-1
q) Round flush-mounting box	not delivered by Ekinex®
r) Square flush-mounting box	not delivered by Ekinex®
s) Rectangular flush-mounting box (3 modules)	not delivered by Ekinex®

**Pushbuttons 20venti series with backlit text/symbols and proximity sensor (5/10 rockers)**

Description	Code
a) Pushbuttons 20venti series with backlit text/symbols and proximity sensor 5 rockers	EK-E20-TP-5TS-PN
b) Pushbuttons 20venti series with backlit text/symbols and proximity sensor 10 rockers	EK-E20-TP-10T-PN
c) Square plate Surface version (60 x 60 mm window)	EK-SQS-...
d) Square plate Surface version (30 x 60 mm window)	EK-SQT-...
e) Square plate Deep version (30 x 60 mm window)	EK-DQT-...
f) Square plate Deep version (60 x 60 mm window)	EK-DQS-...
g) Rectangular plate Deep version (60 x 60 mm window)	EK-DRS-...
h) Rectangular plate Surface version (60 x 60 mm window)	EK-SRS-...
i) Rectangular rockers (3 pcs) Rectangular rockers dimmer (1 pcs)	EK-T4R-20-BT... EK-T2B-20-BT...

Description	Code
j) Rectangular rockers (6 pcs) Rectangular rockers dimmer (2 pcs)	EK-T4R-20-BT... EK-T2B-20-BT...
k) Metal mounting support	EK-T2B-20-BT...
l) Metal mounting support with adapter	EK-SMQ-71-1
m) Adapter for square Surface plate	EK-SMR-71-1
n) Adapter for square plate 'NF and Deep version	EK-TAS-Q-1
o) Adapter for rectangular plate 'NF and Deep version	EK-TAQE-1-NF
p) Adapter for Surface rectangular plate	EK-TAR-1-NF
q) Round flush-mounting box	EK-TAS-R-1
r) Square flush-mounting box	not delivered by Ekinex®
s) Rectangular flush-mounting box (3 modules)	not delivered by Ekinex®



## Pushbuttons 20venti series

WALL-MOUNT DEVICES



**A wider range of combinations and features.**  
The 20venti series pushbuttons are available on Deep and Surface plates with 4 or 8 rockers modularity and built-in RGB LEDs to create any colour shade. Buttons with 5 or 10 rockers modularity are also available for dimming lights or managing shutters.

The Ekinex® 20venti pushbuttons' series controls offer the possibility of numerous variants to meet the most diverse requirements. The basis is represented by the pushbutton that contains a KNX communication module inside. The EK-E20-TP-... is suitable both for mounting on a round or square wall-mounting box with fixing holes with 60 mm centre distance, and for mounting on a 3-place Italian standard rectangular wall-mounting box with fixing holes with 83.5 mm centre distance. Each pushbutton is delivered with a terminal block and two pairs of fixing screws.

The button must be completed with its relative metal support, a plastic adapter, the keys and a plate from the Deep or Surface version. The buttons are available in rectangular shape, in plastic material. The button has integrated RGB LEDs that can be freely programmed: for example, for status indication or as a night orientation light. The device also offers the function of a room thermostat, thanks to the integrated temperature sensor. The integrated proximity sensor ensures maximum readability when using the push-button panel and allows visual comfort during the night.

The devices are configured and commissioned using the ETS® software; the relevant application programs can be downloaded from [www.ekinex.com](http://www.ekinex.com).





## 4/8-fold pushbutton with backlit text/symbols and proximity sensor 20venti series

WALL-MOUNT DEVICES

### Description

The Ekinex® 20venti series 4/8-fold pushbutton is used for on/off control of utility devices, dimming of luminaires, control of motorized drives for roller shutters or other programmable control functions. Thanks to the integrated temperature sensor, the button can act as a temperature controller for a room or zone. RGB LED for each rocker. The switch has an integrated KNX bus communication module and is designed for installation in a flush-mounted wall box.

### Main features

- 4/8 fold version (possibility to configure up to 4 or 8 independent functions)
- RGB LED for each freely programmable rocker
- Integrated temperature sensor
- Integrated proximity sensor
- Room thermostat function
- Plastic casing
- Connection to bus line with KNX terminal block
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 17 mA

### Delivery

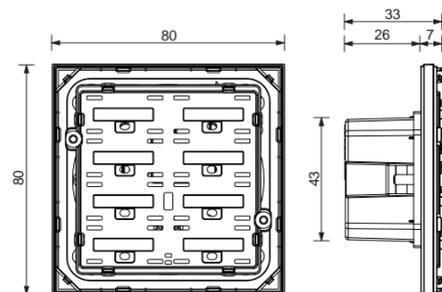
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- 4 or 8 rectangular 30 x 15 mm plastic rockers with or without backlit text/symbol
- square plate of the Deep and Surface version with 30 x 60 mm or 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Rockers
EK-E20-TP-4TS-PN	RGB		4 left with backlit text/symbols
EK-E20-TP-4TD-PN	RGB	without frame	4 right with backlit text/symbols
EK-E20-TP-8T-PN	RGB		8 with backlit text/symbols



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE20TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## 8-fold pushbutton with backlit text/symbols and proximity sensor for rectangular wall-box 20venti series

WALL-MOUNT DEVICES

### Description

The Ekinex® 20venti series 8-fold pushbutton is used for on/off control of utility devices, dimming of luminaires, control of motorized drives for roller shutters or other programmable control functions. Thanks to the integrated temperature sensor, the button can act as a temperature controller for a room or zone. RGB LED for each rocker. The switch has an integrated KNX bus communication module and is designed for installation in a flush-mounted wall box.

### Main features

- 8 fold version (possibility to configure up to 8 independent functions)
- RGB LED for each freely programmable rocker
- Integrated temperature sensor
- Integrated proximity sensor
- Room thermostat function
- Plastic casing
- Connection to bus line with KNX terminal block
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 17 mA

### Delivery

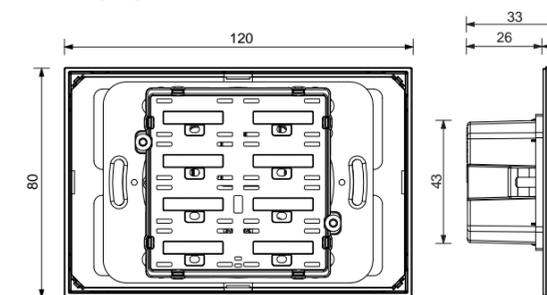
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- 8 rectangular 30 x 15 mm plastic rockers with or without backlit text/symbol
- square plate of the Deep and Surface version with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Rockers
EK-E20-TP-8T-PN	RGB	without frame	8 with backlit text/symbols



### Configuration and commissioning

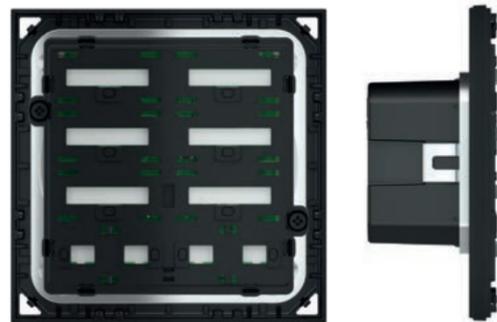
By means of ETS5 software or later versions  
Application program: **APEKE20TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## 10-fold pushbutton with backlit text/symbols and proximity sensor 20venti series

WALL-MOUNT DEVICES  
COMING SOON

### Description

The Ekinex® 20venti series 5/10-fold pushbutton is used for on/off control of utility devices, dimming of luminaires, control of motorized drives for roller shutters or other programmable control functions. Thanks to the integrated temperature sensor, the button can act as a temperature controller for a room or zone. RGB LED for each rocker. The switch has an integrated KNX bus communication module and is designed for installation in a flush-mounted wall box.

### Main features

- 5/10 fold version (possibility to configure up to 5 or 10 independent functions including 2 or 4 functions for adjustments)
- RGB LED for each freely programmable rocker
- Integrated temperature sensor
- Integrated proximity sensor
- Room thermostat function
- Plastic casing
- Connection to bus line with KNX terminal block
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 17 mA

### Delivery

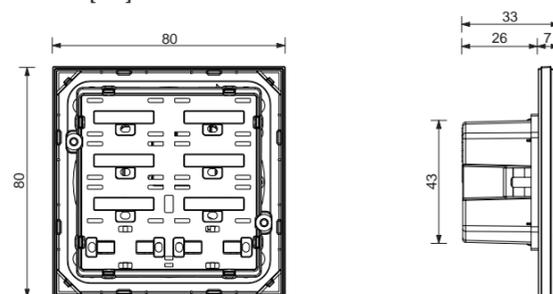
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- 3 or 6 rectangular 30 x 15 mm plastic rockers with or without backlit text/symbol and 1 or 2 rectangular 30 x 15 mm plastic rockers for adjustments
- square plate of the Deep and Surface version with 30 x 60 mm or 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Rockers
EK-E20-TP-5TS-PN	RGB	without frame	3 left with backlit text/symbols 1 left for adjustments
EK-E20-TP-5TD-PN	RGB		3 right with backlit text/symbols 1 right for adjustments
EK-E20-TP-10T-PN	RGB		6 with backlit text/symbols 2 for adjustments



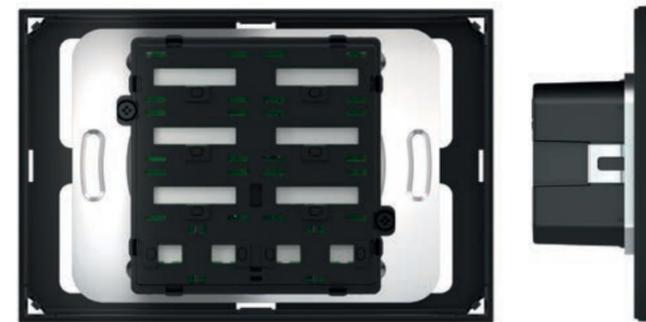
### Configuration and commissioning

By means of ETS4 2.0 software (or later versions)  
Application program: **APEKE20TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## 10-fold pushbutton with backlit text/symbols and proximity sensor for rectangular wall-box 20venti series

WALL-MOUNT DEVICES  
COMING SOON

### Description

The Ekinex® 20venti series 10-fold pushbutton is used for on/off control of utility devices, dimming of luminaires, control of motorized drives for roller shutters or other programmable control functions. Thanks to the integrated temperature sensor, the button can act as a temperature controller for a room or zone. RGB LED for each rocker. The switch has an integrated KNX bus communication module and is designed for installation in a flush-mounted wall box.

### Main features

- 10 fold version (possibility to configure up to 10 independent functions including 4 functions for adjustments)
- RGB LED for each freely programmable rocker
- Integrated temperature sensor
- Integrated proximity sensor
- Room thermostat function
- Plastic casing
- Connection to bus line with KNX terminal block
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 17 mA

### Delivery

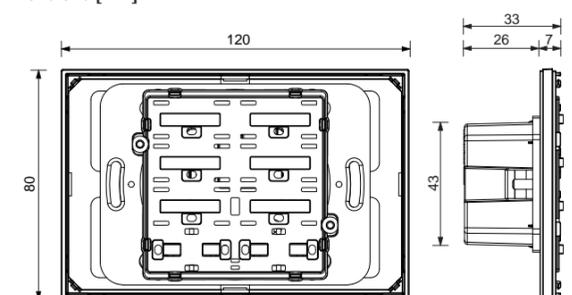
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- 6 rectangular 30 x 15 mm plastic rockers with or without backlit text/symbol and 2 rectangular 30 x 15 mm plastic rockers for adjustments
- square plate of the Deep and Surface version with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Rockers
EK-E20-TP-10T-PN	RGB	without frame	6 with backlit text/symbols 2 for adjustments



### Configuration and commissioning

By means of ETS4 2.0 software (or later versions)  
Application program: **APEKE20TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



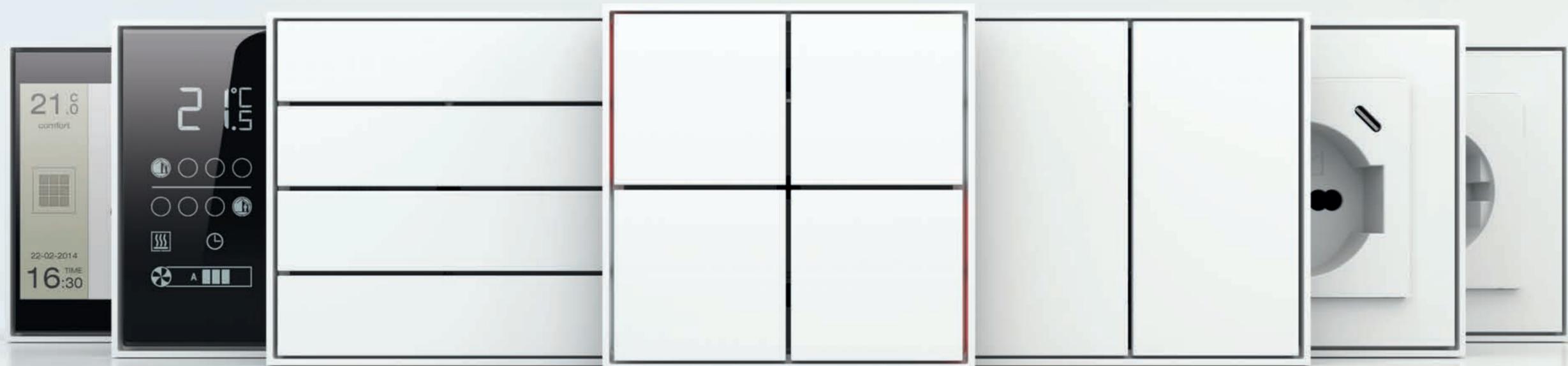


FF SERIES  
WALL-MOUNT DEVICES

Form	52
Flank	54
'NF	56
Deep	58
Surface	60



ON	Ingresso Ufficio	OFF
ON	Totale Ufficio	OFF
ON	Cantina Tin	OFF



## FF Form

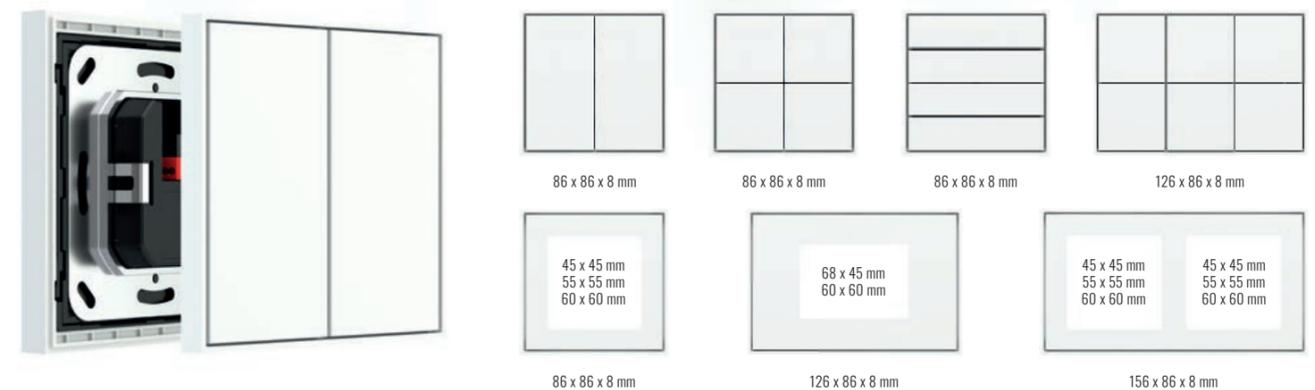
WALL-MOUNT DEVICES

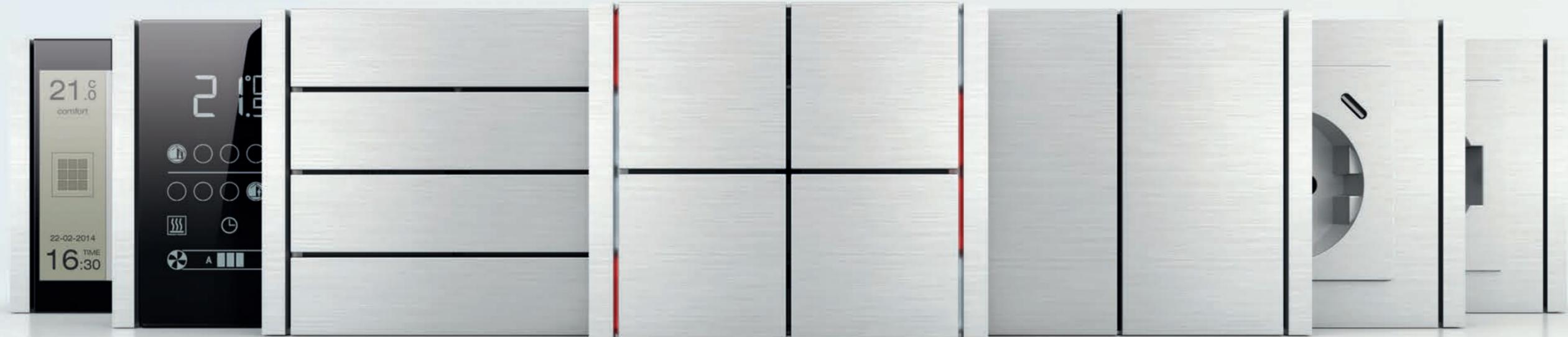
**Simple and linear. An essential form that suggests an idea of reliability and rigour.** The FF series in Form version features a wide range of devices with integrated LEDs with adjustable light intensity, touch-displays, power sockets and keystone modules. The materials used are plastic, metal, Metal HT, the nanotechnological Fenix NTM® and the different finishes can be freely combined with each other.

**Available colour solutions**

	Form	Flank	'NF	Deep	Surface	Rockers
	Frames		Plates			
Plastic	•	•	•	•	-	•
Metal	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•
Fenix NTM®	-	-	•	•	•	•

For more information see page 212





## FF Flank

WALL-MOUNT DEVICES

**Minimal and rigorous.** Distinguished by its characteristic side edges, the Flank version of the FF series features a wide range of devices with integrated LEDs with adjustable luminous intensity, touch-displays, power sockets and keystone modules. The materials used are plastic, metal, Metal HT, the nanotechnological Fenix NTM® and the different finishes can be freely combined with each other.

### Available colour solutions

	Form	Flank	*NF	Deep	Surface	Rockers
	Frames		Plates			
Plastic	•	•	•	•	-	•
Metal	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•
Fenix NTM®	-	-	•	•	•	•

For more information see page 212





**FF 'NF'**  
WALL-MOUNT DEVICES

**Essential geometry in forms and a decisive trait. More than ever less is more.** The range of FF series devices in 'NF' version offer the possibility to create numerous variants to meet the most different needs. Devices with integrated LEDs with adjustable luminous intensity, touch-displays, power sockets and keystone modules. The materials used are plastic, metal, Metal HT and the nanotechnological Fenix NTM®.

**Available colour solutions**

	Form	Flank	'NF'	Deep	Surface	Rockers
	Frames		Plates			
<b>Plastic</b>	•	•	•	•	-	•
<b>Metal</b>	•	•	•	•	•	•
<b>Metal HT</b>	-	-	-	•	•	•
<b>Fenix NTM®</b>	-	-	•	•	•	•

For more information see page 212



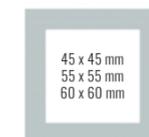
80 x 80 x 8 mm



80 x 80 x 8 mm



80 x 80 x 8 mm



45 x 45 mm  
55 x 55 mm  
60 x 60 mm

80 x 80 x 8 mm



68 x 45 mm  
60 x 60 mm

120 x 80 x 8 mm



45 x 45 mm  
55 x 55 mm  
60 x 60 mm

45 x 45 mm  
55 x 55 mm  
60 x 60 mm

151 x 80 x 8 mm



## FF Deep

WALL-MOUNT DEVICES

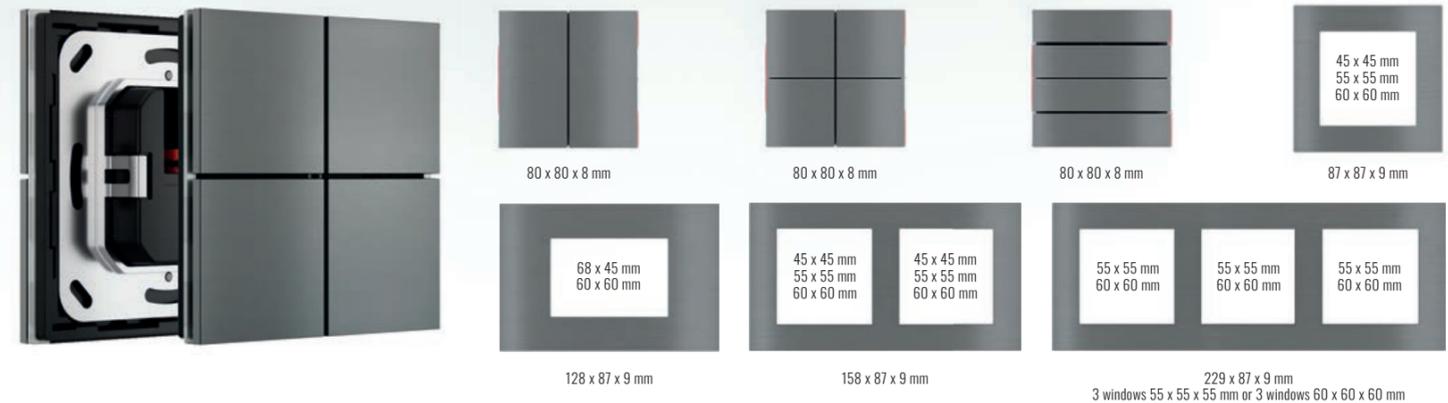
**Versatile and suitable for any setting.** The Deep version of the FF series consists of devices with integrated LEDs with adjustable light intensity, touch-displays, power sockets and keystone modules. Versatile and compact, it lends itself to various combinations and blends in with all furnishing styles. The materials used are plastic, metal, Metal HT and the nanotechnology Fenix NTM®.

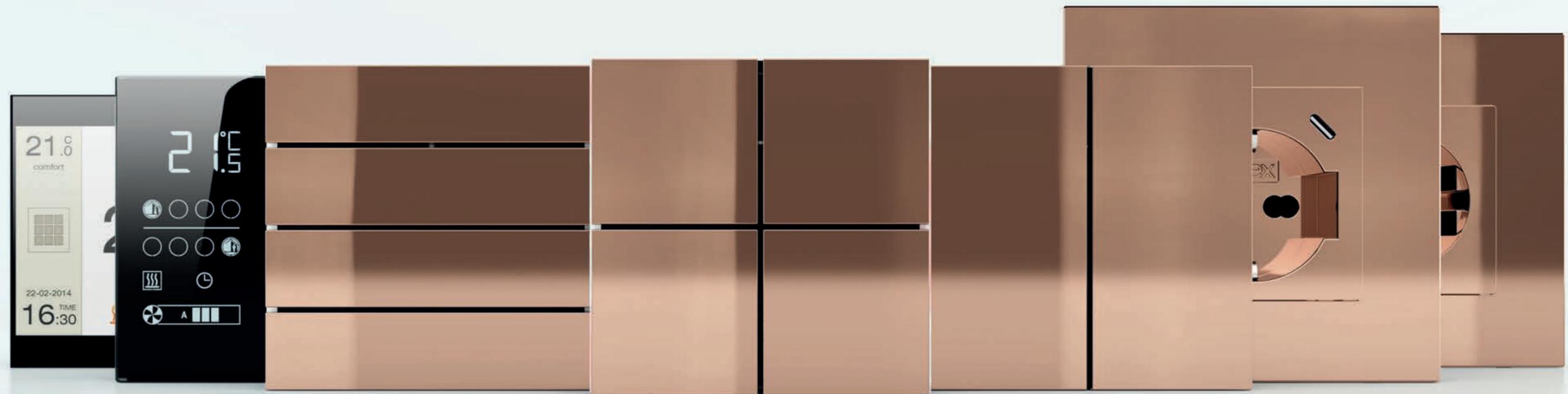
### Available colour solutions

	Form	Flank	*NF	Deep*	Surface	Rockers
	Frames		Plates			
Plastic	•	•	•	•	-	•
Metal	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•
Fenix NTM®	-	-	•	•	•	•

For more information see page 212

\*) In the FF Deep we suggest the use of the pushbuttons and room thermostats of the FF - 'NF' series





## FF Surface

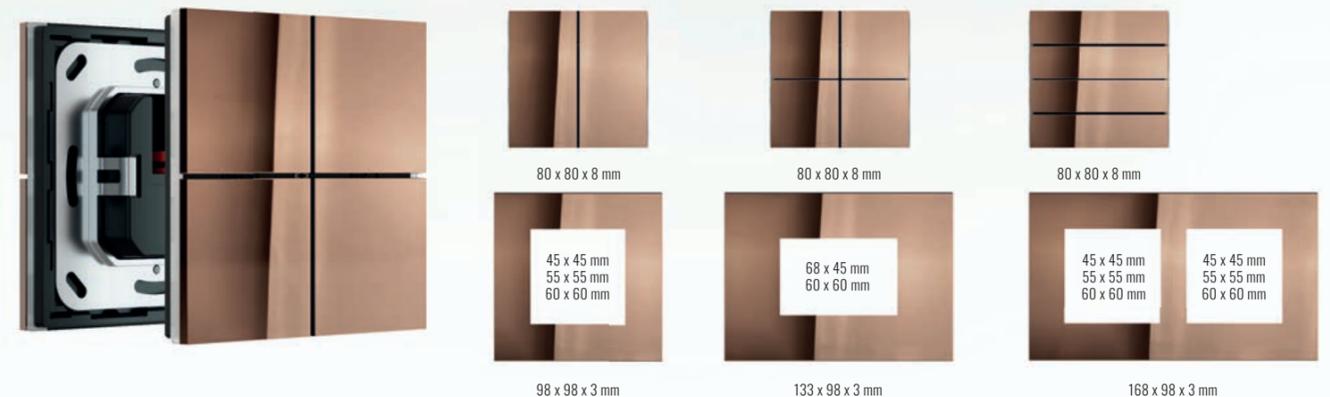
WALL-MOUNT DEVICES

**Compact and essential. Creates a continuum with the wall in a few millimetres of thickness.** The Surface version of the FF series caresses surfaces to create a uniform effect between button and wall. It consists of devices with integrated LEDs with adjustable light intensity, touch-displays, power sockets and keystone modules. Declined in materials with a strong personality such as metal, Metal HT and Fenix NTM®, it finds its ideal place in all rooms of the contemporary home.

**Available colour solutions**

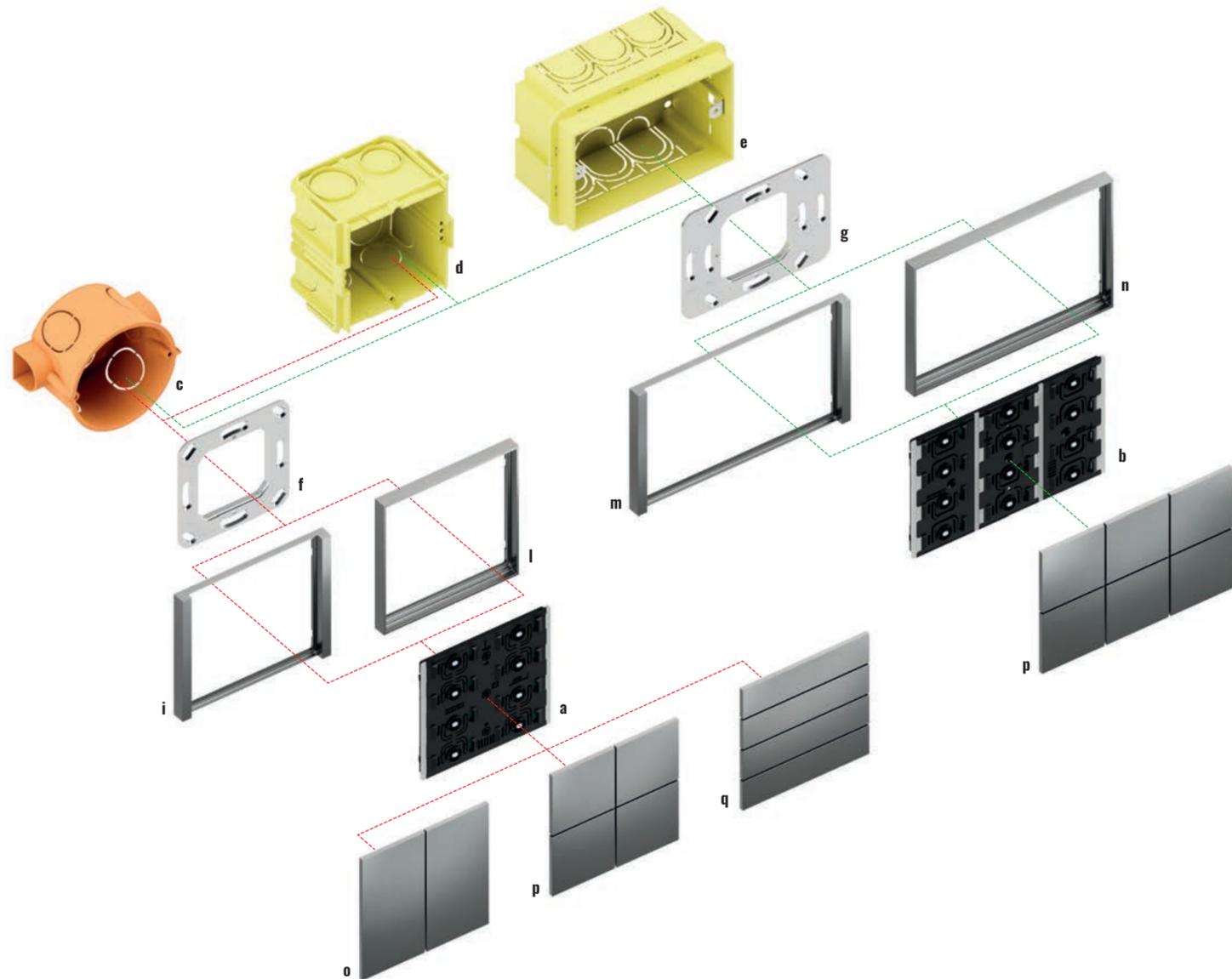
	Form	Flank	'NF	Deep	Surface*	Rockers
	Frames		Plates			
<b>Plastic</b>	•	•	•	•	-	•
<b>Metal</b>	•	•	•	•	•	•
<b>Metal HT</b>	-	-	-	•	•	•
<b>Fenix NTM®</b>	-	-	•	•	•	•

For more information see page 212  
 \*) In the FF Surface we suggest the use of the pushbuttons and room thermostats of the FF - 'NF series



# Pushbuttons FF series

WALL-MOUNT DEVICES



Four or six channels, square or rectangular keys, with or without frame, with or without LED, with or without temperature sensor and thermostat function. Choose the combination that best suits your needs of style and features.

The Ekinex® pushbuttons of FF series range and related accessories offer the possibility to realize several variations that will satisfy the most diverse needs. The base is represented by the 4-fold (EK-ED2-TP and EK-E32-TP) and 6-fold (EK-EH2-TP) pushbuttons; each one is fitted with a KNX communication module. The 4-fold pushbutton is suitable for mounting into a flush mounting box, either round or square, provided with fixing holes 60 mm apart, while the 6-fold version is also ideal for mounting into a rectangular wall mounting box 3 seater according to the Italian installation standard provided with fixing holes 83,5 mm apart. Each device is supplied with its relative metal support which, in case of necessity, can also be ordered separately. A terminal block complete the supply.

The pushbuttons must be finished off with an operation surface (rockers) and a frame. The rockers are available in square and rectangular shapes, plastic material, aluminium or Fenix NTM®, in several colour and finishing variations. The rockers can be personalized with symbols and texts, so to make their function immediately understandable. Versions EK-ED2-TP and EK-EH2-TP have integrated LEDs which can be programmed freely: as an example, as a status feedback or as an orientation light at night time. Two colour combinations are available for the LEDs: blue / green or red / white. The same versions also offer a room thermostat function, thanks to the integrated temperature sensor. The frames, square and rectangular, are available in two stylish alternatives (Form and Flank) and are available in plastic material or aluminium. The 'NF' version of the 4-fold pushbutton is mounted without frame and is provided with a side profile in white or black colour.

The pushbuttons simply get connected to the unique signal bus cable and do not require auxiliary power supply; the devices are supplied at SELV (Safety Extra Low Voltage) voltage, thus offering a much higher safety level than traditional commands. The configuration and commissioning is carried out by means of the ETS® software. The related application programs can be downloaded from the [www.ekinex.com](http://www.ekinex.com) website.



### Pushbuttons FF series

Description	Code
a) 4-fold pushbutton and room thermostat FF series	EK-ED2-TP-... or EK-E32-TP-...
b) 6-fold pushbutton FF series	EK-EH2-TP-...
c) Round flush-mounting box	not delivered by Ekinex®
d) Square flush-mounting box	not delivered by Ekinex®
e) Rectangular flush-mounting box (3 modules)	not delivered by Ekinex®
f) Metal mounting support	EK-SMQ-71-1
g) Metal mounting support	EK-SMR-71-1

Description	Code
i) Square frame Flank version	EK-FLQ-...
j) Square frame Form version	EK-FOQ-...
m) Rectangular frame Flank version	EK-FLR-...
n) Rectangular frame Form version	EK-FOR-...
o) Rectangular vertical rockers	EK-TRV-...
p) Square rockers	EK-TQQ-...
q) Rectangular horizontal rockers	EK-TRO-...



## 4-fold basic pushbutton FF series

WALL-MOUNT DEVICES

### Description

The 4-fold pushbutton of Ekinex® FF series commands loads on/off switching, controls the dimming of lighting devices, controls motor drives for shutters or executes any other programmable command and control function. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box: it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- 4-fold (possibility to configure up to 8 independent functions)
- Plastic casing
- Wall-mounting installation
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- IP20 protection degree (installed)
- Weight 80 g (with mounting support)

### Technical data

- 30 Vdc power supply through KNX bus
- Current consumption from bus < 15 mA

### Delivery

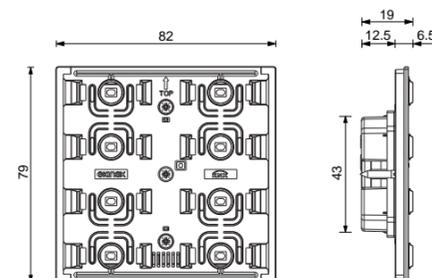
Delivery includes a terminal block for connection to the bus, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) and two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- square or rectangular rockers
- square frame Form or Flank version

### Dimensions [mm]



### Order information

Code	Mounting	Side profile
EK-E32-TP	with square frame Form or Flank version	black
EK-E32-TP-NF	without frame ('NF version)	white
EK-E32-TP-NFW		



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE32TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## 4-fold pushbutton and room thermostat FF series

WALL-MOUNT DEVICES

### Description

The 4-fold pushbutton of Ekinex® FF series commands loads on/off switching, controls the dimming of lighting devices, controls motor drives for shutters or executes any other programmable command and control function. Thanks to the integrated temperature sensor, the pushbutton can work as a thermostat for a room or a zone. The LEDs can be chosen in the colour combinations blue / green or white / red. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box: it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- 4-fold (possibility to configure up to 8 independent functions)
- 4 freely programmable LEDs for each channel
- 2 colour combination available for the LEDs (blue/green or red/white)
- Integrated temperature sensor
- Room thermostat function
- Plastic casing
- Wall-mounting installation on round or square wall box
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- IP20 protection degree (installed)
- Weight 80 g (with mounting support)

### Technical data

- 30 Vdc power supply through KNX bus
- Current consumption from bus < 15 mA

### Delivery

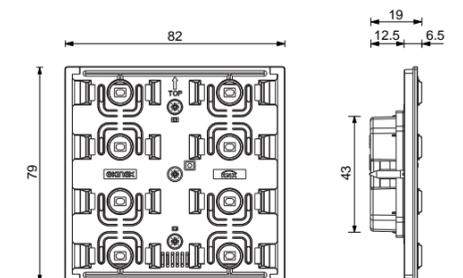
Delivery includes a terminal block for connection to the bus, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) and two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- square or rectangular rockers
- square frame Form or Flank version

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Side profile
EK-ED2-TP	blue / green	with square frame Form or Flank version	black
EK-ED2-TP-RW	red / white		
EK-ED2-TP-BG-NF	blue / green		
EK-ED2-TP-RW-NF	red / white	without frame ('NF version)	white
EK-ED2-TP-BG-NFW	blue / green		
EK-ED2-TP-RW-NFW	red / white		



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKED2TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## 6-fold pushbutton FF series

WALL-MOUNT DEVICES

### Description

The 6-fold pushbutton of Ekinex® FF series commands loads on/off switching, controls the dimming of lighting devices, controls motor drives for shutters or executes any other programmable command and control function. Thanks to the integrated temperature sensor, the pushbutton can send the room temperature value on the bus to other KNX devices. The LEDs can be chosen in the colour combinations blue / green or white / red. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- 6-fold (possibility to configure up to 12 independent functions)
- 4 freely programmable LEDs for each channel
- 2 colour combination available for the LEDs (blue/green or red/white)
- Integrated temperature sensor
- Plastic casing
- Wall-mounting installation on round, square or rectangular wall box
- Connection to bus line with KNX terminal block
- Rear programming pushbutton and LED
- IP20 protection degree (installed)
- Weight 75 g (with mounting support)

### Technical data

- 30 Vdc power supply through KNX bus
- Current consumption from bus < 15 mA

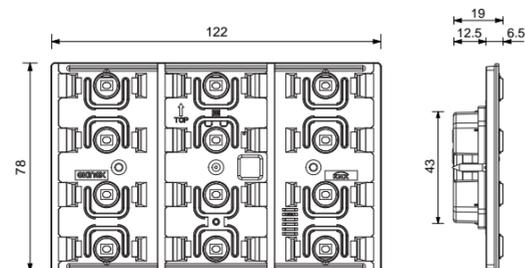
### Delivery

Delivery includes a terminal block for connection to the bus, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) or rectangular mounting box (fixing holes 83,5 mm apart) and two pairs of fixing screws.

### Accessories

- The following accessories are available to be ordered separately:
- square rockers
  - rectangular frame Form or Flank version

### Dimensions [mm]



### Order information

Code	LED colours	Mounting
EK-EH2-TP	blue / green	with rectangular frame Form or Flank version
EK-EH2-TP-RW	red / white	



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKEH2TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Room thermostats

WALL-MOUNT DEVICES

### Aesthetics and functionality conjugated according to the Ekinex® style.

The room temperature controls of the FF series contain the characteristics of a product with a strong technological footprint combined with a focus on aesthetic component. Available in different models, integrated LEDs and two custom keys, the Ekinex® room controllers are with their high performance able to meet the most different needs.

#### Available colour solutions

	Form	Flank	Rockers
	Frames		
Plastic	•	•	•
Metal	•	•	•
Metal HT	-	-	•
Fenix NTM®	-	-	•

For more information see page 212



86 x 86 x 8 mm  
Form



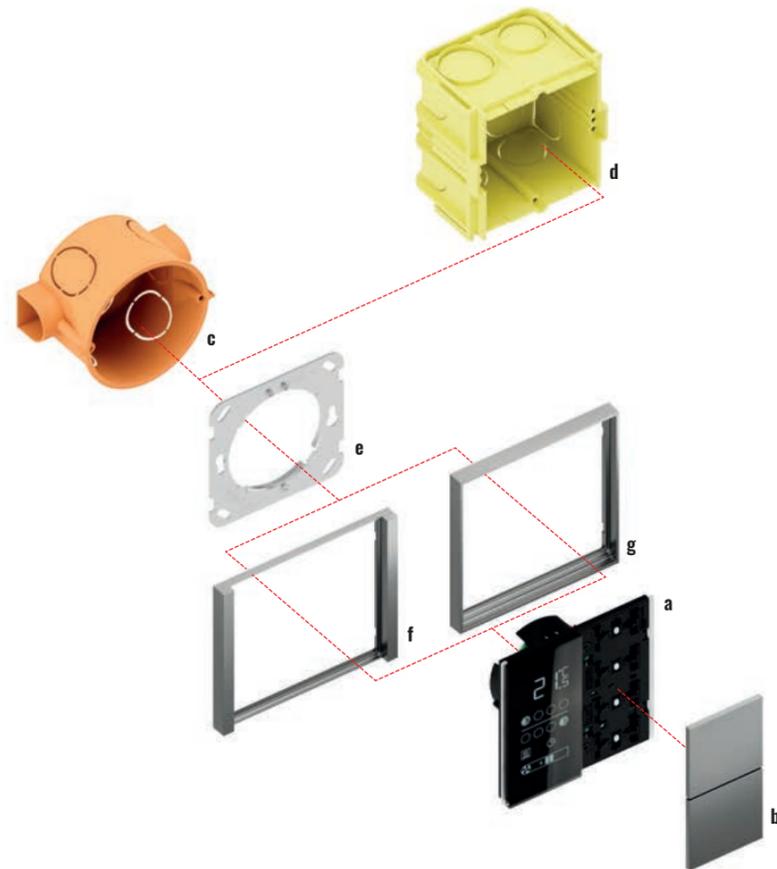
94 x 86 x 8 mm  
Flank



80 x 80 x 8 mm  
NF - Deep - Surface

## Room thermostats FF series

WALL-MOUNT DEVICES



### Room thermostats FF series

Description	Code
a) Room thermostat FF series	EK-ER2-TP-... or EK-EP2-TP-... or EK-EQ2-TP-...
b) Set 2 rockers for thermostat FF series	EK-TQQ-...-EP2
c) Round flush-mounting box	not delivered by Ekinex®
d) Square flush-mounting box	not delivered by Ekinex®
e) Metal mounting support	EK-SMQ-1
f) Square frame of Flank version	EK-FLQ-...
g) Square frame of Form version	EK-FOQ-...



**Form, Flank, 'NF.**  
Three different variations for a room temperature control device with unique performance.

The Ekinex® thermostats of FF series range and related accessories offer the possibility to realize several variations that will satisfy the most diverse needs. The base is represented by the thermostats EK-ER2-TP, EK-EP2-TP and EK-EQ2-TP (with relative humidity sensor); each one integrates a KNX communication module. The device is suitable for mounting into a flush mounting box, either round or square, provided with fixing holes 60 mm apart. Each thermostat is delivered with its relative metal support which, in case of necessity, can also be ordered separately. A terminal block completes the delivery.

The pushbuttons must be finished off with an operation surface (rockers) and a frame. The rockers are available in square shape, plastic material, aluminium or Fenix NTM® in several colour and finishing variations. A special set includes two customized rockers with symbols for the thermostat functions. Each thermostat has integrated LEDs which can be programmed freely: as an example, as a status feedback or as an orientation light at night time. Two colour combinations are available for the LEDs: blue / green or red / white. The square frames are available in two stylish alternatives, Form and Flank, and share the same choice of materials, colours and finishings as for rockers. The 'NF' version of the thermostat is mounted without frame and is provided with a side profile in white or black colour.



The thermostats simply get connected to the unique signal bus cable and do not require auxiliary power supply; the devices are powered at SELV (Safety Extra Low Voltage) voltage, thus offering a much higher safety level than traditional commands. The configuration and commissioning is carried out by means of the ETS® software. The related application programs can be downloaded from the [www.ekinex.com](http://www.ekinex.com) website.



## Easy room thermostat FF series

WALL-MOUNT DEVICES

### Description

The Ekinex® Easy room thermostat FF-series is a digital electronic thermostat with a user-friendly interface for the end user and system integrator. While using a single differentiated set point for heating and cooling with only one on/off operating mode, the unit allows the control of terminals with one or two stages (such as radiators, floor and ceiling radiant panels, etc.) and fan-coil units with 2 or 4 pipe hydraulic supply. The product is equipped with an LCD display with adjustable back-lighting, a sensor for room temperature measurement and two freely configurable inputs. The indicator LEDs can be chosen in blue/green or white/red colour combinations. The device has an integrated KNX bus communication module and is designed for installation in a flush-mounted wall box; it is powered by the KNX bus and requires no auxiliary power supply.

### Main features

- LCD display with adjustable backlighting
- 2 keys for controlling the thermostat functions
- 4 freely programmable LEDs for each button
- 2 colour combinations available for LEDs (blue/green or white/red)
- Integrated temperature sensor
- 2 freely programmable inputs
- Plastic housing
- Bus line connection via KNX terminal
- Programming button and LED on front panel
- Recessed wall mounting on round or square box
- IP20 degree of protection (installed)
- Weight 85 g (with mounting bracket)

### Technical data

- 30 Vdc power supply through KNX bus
- Current consumption from bus < 13 mA

### Delivery

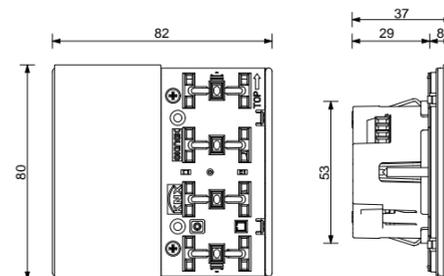
Delivery includes a terminal block for connection to the bus, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) and two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- set of two square rockers with symbols for room thermostat
- square frame Form or Flank version

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Side profile
EK-ER2-TP	blue / green	with square frame	-
EK-ER2-TP-RW	red / white	Form or Flank version	-
EK-ER2-TP-BG-NF	blue / green		black
EK-ER2-TP-RW-NF	red / white	without frame ('NF version')	
EK-ER2-TP-BG-NFW	blue / green		white
EK-ER2-TP-RW-NFW	red / white		



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKER2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Room thermostat FF series

WALL-MOUNT DEVICES

### Description

The Ekinex® room temperature controller of FF series regulates independently the temperature of a room or a zone. In combination with one or more KNX actuators, the room temperature controller is able to control the heating and cooling emission of a series of terminal units for the thermal exchange (such as radiators, fan-coils, floor and ceiling radiant panels, etc.). The device is provided with a LCD-display with adjustable backlight, sensors for temperature and brightness measuring and two freely configurable inputs. The LEDs can be chosen in the colour combinations blue / green or white / red. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is powered by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- LCD-display with adjustable backlight
- 2 rockers for controlling thermostat functions
- 4 freely programmable LEDs for each channel
- 2 colour combination available for the LEDs (blue/green or red/white)
- Integrated temperature sensor
- 2 freely configurable inputs
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 85 g (with mounting support)

### Technical data

- 30 Vdc power supply through KNX bus
- Current consumption from bus < 13 mA

### Delivery

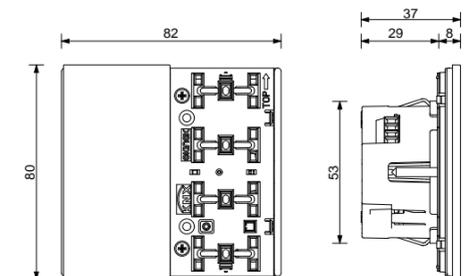
Delivery includes a terminal block for connection to the bus, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) and two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- set of two square rockers with symbols for room thermostat
- square frame Form or Flank version

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Side profile
EK-EP2-TP	blue / green	with square frame	-
EK-EP2-TP-RW	red / white	Form or Flank version	-
EK-EP2-TP-BG-NF	blue / green		black
EK-EP2-TP-RW-NF	red / white	without frame ('NF version')	
EK-EP2-TP-BG-NFW	blue / green		white
EK-EP2-TP-RW-NFW	red / white		



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKEP2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Room thermostat with relative humidity sensor FF series

WALL-MOUNT DEVICES

### Description

The Ekinex® room temperature controller of FF series regulates independently the temperature of a room or a zone. In combination with one or more KNX actuators, the room temperature controller is able to control the heating and cooling emission of a series of terminal units for the thermal exchange (such as radiators, fan-coils, floor and ceiling radiant panels, etc.). The device is provided with a LCD-display with adjustable backlight, sensors for temperature, relative humidity and brightness measuring and two freely configurable inputs. The LEDs can be chosen in the colour combinations blue / green or white / red. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is powered by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- LCD-display with adjustable backlight
- 2 rockers for controlling thermostat functions
- 4 freely programmable LEDs for each channel
- 2 colour combination available for the LEDs (blue/green or red/white)
- Integrated temperature and relative humidity sensor
- 2 freely configurable inputs
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 85 g (with mounting support)

### Technical data

- 30 Vdc power supply through KNX bus
- Current consumption from bus < 13 mA

### Delivery

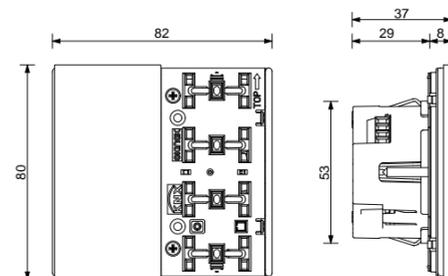
Delivery includes a terminal block for connection to the bus, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) and two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- set of two square rockers with symbols for room thermostat
- square frame Form or Flank version

### Dimensions [mm]



### Order information

Code	LED colours	Mounting	Side profile
EK-EQ2-TP	blue / green	with square frame	-
EK-EQ2-TP-RW	red / white	Form or Flank version	-
EK-EQ2-TP-BG-NF	blue / green		black
EK-EQ2-TP-RW-NF	red / white	without frame (NF version)	
EK-EQ2-TP-BG-NFW	blue / green		white
EK-EQ2-TP-RW-NFW	red / white		



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKEQ2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Touch&See

WALL-MOUNT DEVICES

**Technology in a touch.** When you want to touch the technology, see with your eyes your settings, know the weather or create the comfort you would like, trust Touch&See. The high resolution touch-display and the versatile and intuitive interface are thought to provide highest user comfort and uncompromising aesthetics. The transition from one function to the next one is via side-scrolling pages, from those you can access several sub-menus. You can also set the display brightness according to your own needs or it can be automatically adjusted according to the brightness.

### Available colour solutions

	Form	Flank	Rockers
	Frames		
Plastic	•	•	•
Metal	•	•	•
Metal HT	-	-	•
Fenix NTM®	-	-	•

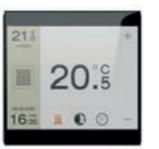
For more information see page 212



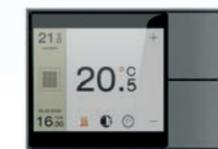
86 x 86 x 8 mm  
**Form**



94 x 86 x 8 mm  
**Flank**



80 x 80 x 8 mm  
**'NF - Deep - Surface'**



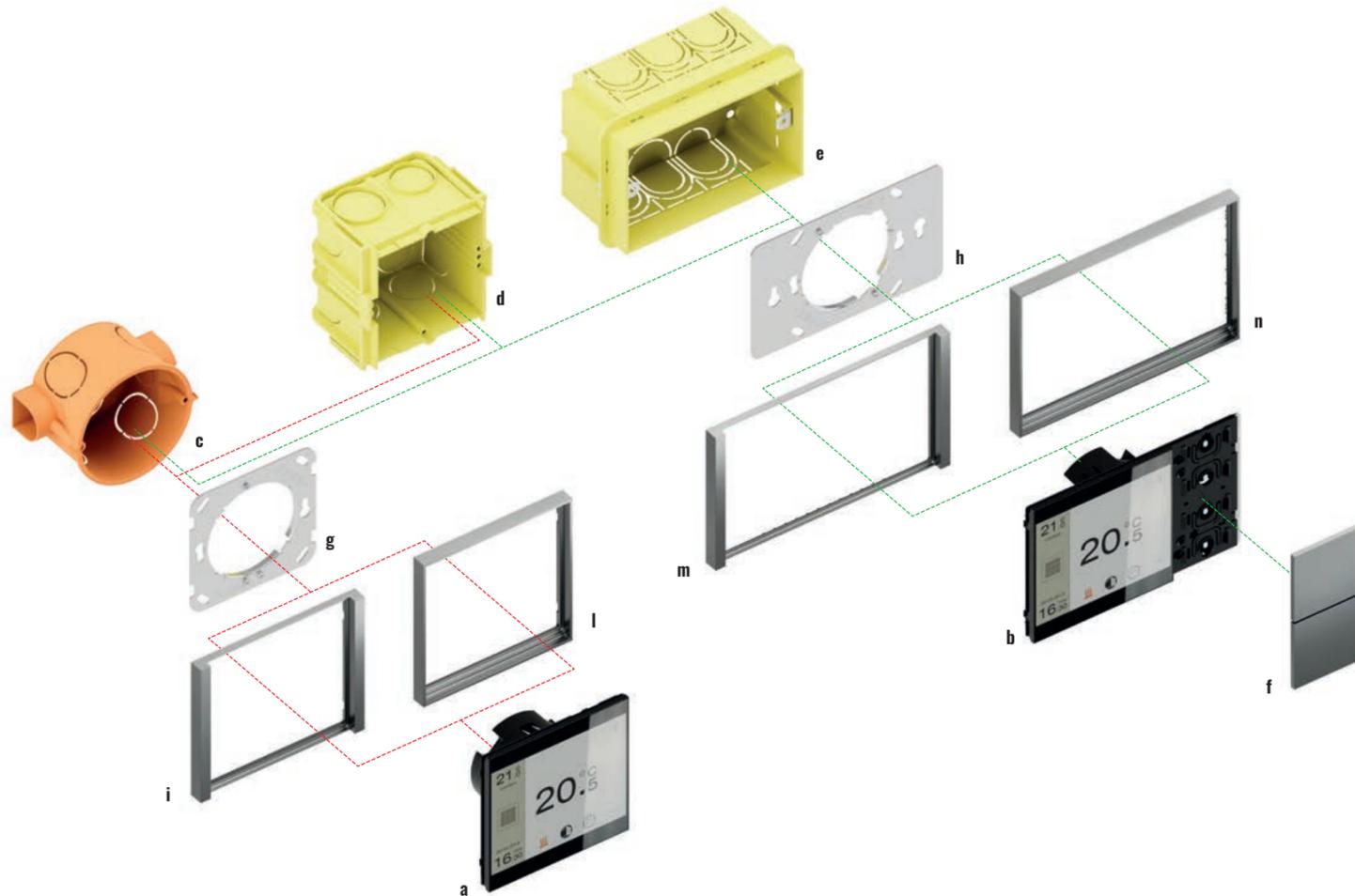
126 x 86 x 8 mm  
**Form**



134 x 86 x 8 mm  
**Flank**

## Touch&See FF series

WALL-MOUNT DEVICES



**Control and display unit with two-channel pushbutton.**  
You will be amazed at all you can do.

The Ekinex® Touch&See display and control units allow to perform a great number of switching, control and display bus functions, utilizing the easiest and most compact devices, with their 3.5" touch-screen and their graphic pages having a clear meaning and immediate understanding.

The base is represented by the control and display unit (EK-EC2-TP-...) and the control and display unit with integrated 2-fold pushbutton (EK-EF2-TP-...); each one integrates a KNX communication module. The control and display unit is suitable for round or square wall mounting boxes with fixing holes 60 mm apart; the unit with the integrated 2-fold pushbutton is also suitable for rectangular wall mounting boxes provided with fixing holes 85 mm apart (3 seater according to the Italian installation standard).

Each Touch&See unit is delivered with a metal mounting support which, in case of necessity, can also be obtained separately; the terminal blocks complete the supply. The Touch&See unit needs to be finished with a frame; in the case of units with integrated 2-fold pushbuttons, it will also be necessary to provide it with two square rockers, available in plastic or aluminium and in several colours and finishings. The frames, either square or rectangular, are available in two alternative styles (Form and Flank) and share the same choice of materials, colours and finishing. The rockers can be personalized with symbols and text, in order to make their function immediately understandable. Each channel of the 2-fold pushbutton has integrated LEDs which can be programmed freely: as an example, as a status feedback or as an orientation light at night time. Two colour combinations are available for the LEDs: blue / green or red / white. The 'NF' version of the Touch&See EK-EC2-TP-... is mounted without frame and is provided with a side profile in white or black colour.

The Touch&See units have to be connected to the signal bus cable and to an auxiliary power supply; the devices are powered at SELV (Safety Extra Low Voltage) voltage, thus offering a much higher safety level than traditional commands. The configuration and commissioning is carried out by means of the ETS® software. The related application programs can be downloaded from the [www.ekinex.com](http://www.ekinex.com) website.



### Touch&See FF series

Description	Code
a) Touch&See display	EK-EC2-TP-...
b) Touch&See display with 2-fold pushbutton	EK-EF2-TP-...
c) Round flush-mounting box	not delivered by Ekinex®
d) Square flush-mounting box	not delivered by Ekinex®
e) Rectangular flush-mounting box (3 modules)	not delivered by Ekinex®
f) Square rockers	EK-TQQ-...

Description	Code
g) Metal mounting support	EK-SMQ-1
h) Metal mounting support	EK-SMR-1
i) Square frame Flank version	EK-FLQ-...
j) Square frame Form version	EK-FOQ-...
m) Rectangular frame Flank version	EK-FLR-...
n) Rectangular frame Form version	EK-FOR-...



## Touch&See display

WALL-MOUNT DEVICES

### Description

Ekinex® Touch&See is a KNX device for the switching, control and display of bus functions. By means of its touch-screen and its graphical user interface, it is possible to control KNX actuators in an easy and intuitive way, to display the information coming from the KNX actuators and sensors and to perform as a room thermostat for up to 8 independent zones, receiving the measured room temperature values from the bus. The device integrates a KNX bus communication module and is designed for wall mounting boxes: it is powered by a SELV voltage directly from the KNX bus and requires an auxiliary 30 Vdc power supply.

### Main features

- 3,5" TFT back-lit touch display, 320 x 240 pixel resolution, 65,536 colours
- Seven main graphic pages
- Plastic casing
- Connection to bus line with KNX terminal block
- Connection to auxiliary power supply with yellow / white terminal block
- Programming pushbutton and LED on the rear
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 110 g (with mounting support)

### Technical data

- SELV power supply from KNX bus (communication)
- 30 Vdc auxiliary power supply (screen)

### Delivery

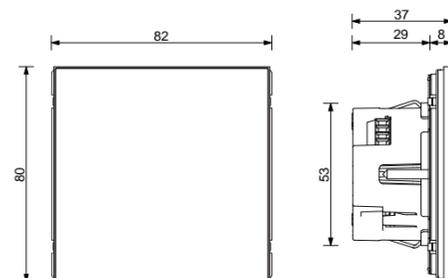
Delivery includes a terminal block for connection to the bus, a terminal block for connection to the auxiliary power supply, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) and two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- square frame Form or Flank version

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKEC2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Touch&See display with 2-fold pushbutton

WALL-MOUNT DEVICES

### Description

Ekinex® Touch&See with 2-fold pushbutton is a KNX device for the switching, control and display of bus functions. By means of its touch-screen and the graphical user interface, it is possible to control KNX actuators in an easy and intuitive way, to display information coming from KNX actuators and sensors and to perform as a room thermostat for a maximum of 8 independent zones. One temperature value can be measured from the integrated sensor, while the other values can be received from the bus. The integrated 2-fold pushbutton allows the on/off command of loads, the dimming of lighting devices, the control of motor drives for shutters or the execution of any other programmable command and control function. The LEDs can be chosen in the colour combinations blue / green or white / red. The device integrates a KNX bus communication module and is designed for mounting onto a wall-mounting box: it is powered by SELV voltage directly from the KNX bus and requires an auxiliary 30 Vdc power supply.

### Main features

- 3,5" TFT back-lit touch display, 320 x 240 pixel resolution, 65,536 colours
- Seven main graphic pages
- Integrated temperature sensor
- 2-fold pushbutton (possibility to configure up to 4 independent functions)
- 4 freely programmable LEDs for each channel
- 2 colour combination available for the LEDs (blue/green or red/white)
- Plastic casing
- Connection to bus line with KNX terminal block
- Connection to auxiliary power supply with yellow / white terminal block
- Programming pushbutton and LED on the rear
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)
- Weight 130 g (with mounting support)

### Technical data

- SELV power supply from KNX bus (communication)
- 30 Vdc auxiliary power supply (screen)

### Delivery

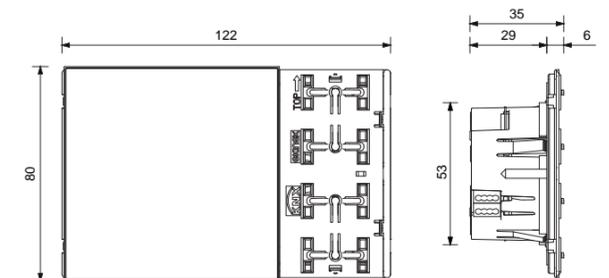
Delivery includes a terminal block for connection to the bus, a terminal block for connection to the auxiliary power supply, a metal support for installation onto round or square mounting box (fixing holes 60 mm apart) or rectangular mounting box (fixing holes 83,5 mm apart) and two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- square rockers
- rectangular frame Form or Flank version

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKEF2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)

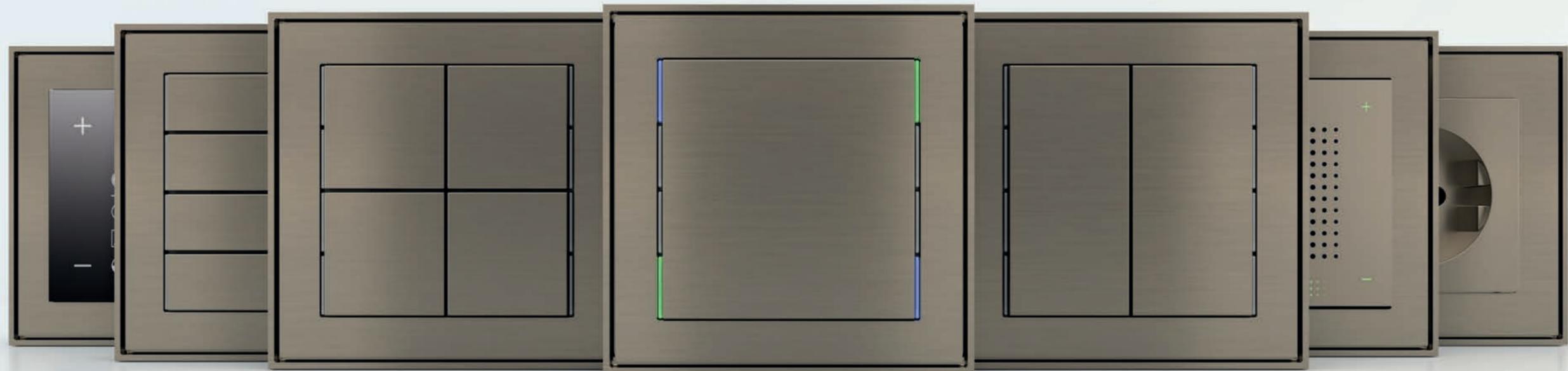


A dark, minimalist wall-mounted device with a glowing red light strip. The device is shown from a low-angle perspective, highlighting its sleek, rectangular form and the subtle texture of its surface. The red light strip is a prominent feature, adding a touch of color to the otherwise monochromatic design.

71 SERIES  
WALL-MOUNT DEVICES

Form	86
Flank	88
*NF	90
Deep	92
Surface	94





## 71 Form

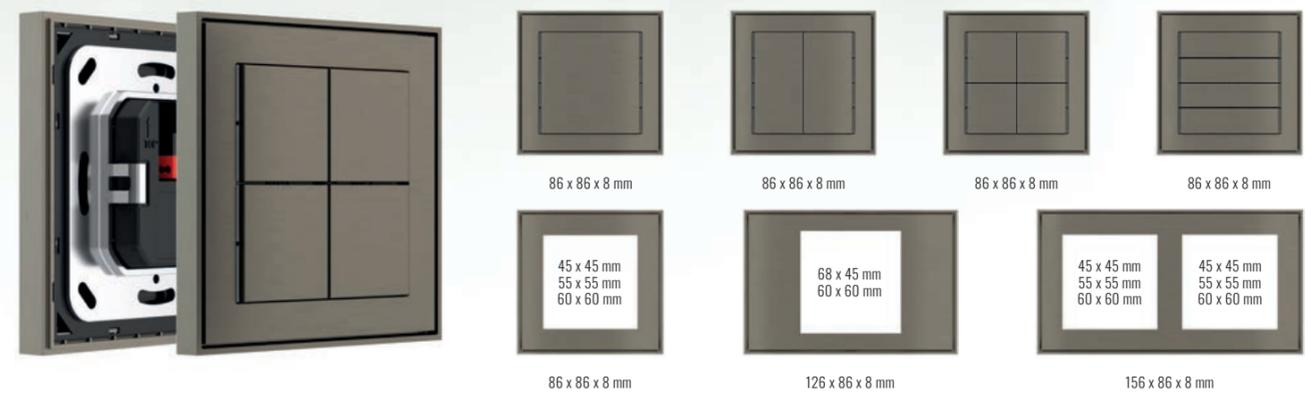
WALL-MOUNT DEVICES

**Elegant and refined. The compactness that adapts to your style.** With an ultra-slim frame, the Form version of the 71 series features devices with integrated LEDs with adjustable light intensity, power sockets and keystone modules. The materials used are plastic, metal, Metal HT, the nanotechnological Fenix NTM® and the different finishes can be freely combined to each other.

**Available colour solutions**

	Form	Flank	'NF	Deep	Surface	Rockers
	Frames			Plates		
Plastic	•	•	•	•	-	•
Metal	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•
Fenix NTM®	-	-	•	•	•	•

For more information see page 212





## 71 Flank

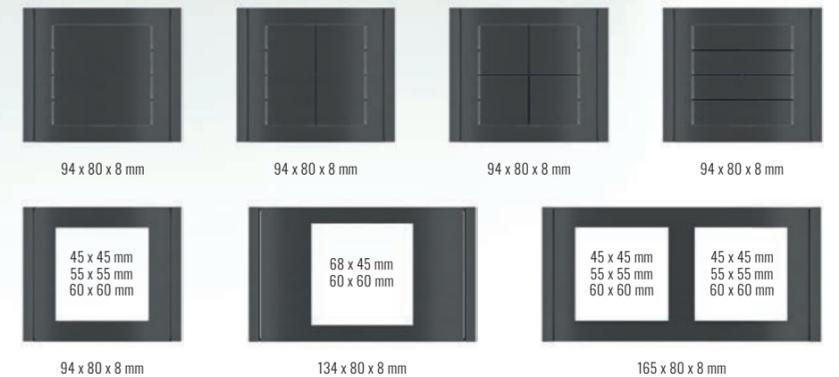
WALL-MOUNT DEVICES

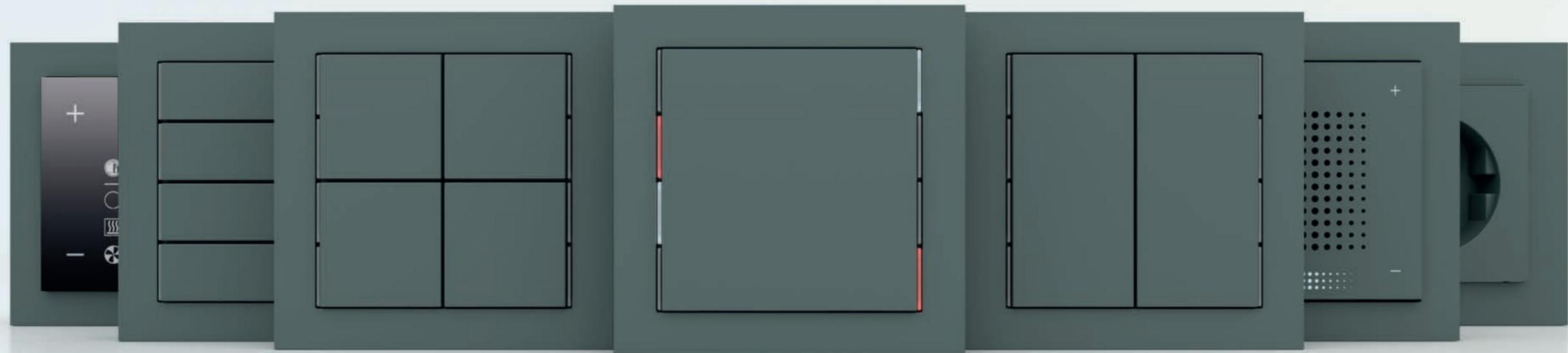
**Harmony and essentiality. The rigorous simplicity of detail.** The Flank version of the 71 series features a wide range of devices with integrated LEDs with adjustable light intensity, power sockets and keystone modules with simple shapes and distinctive side edges. The materials used are plastic, metal, Metal HT, the nanotechnological Fenix NTM® and the different finishes can be freely combined to each other.

**Available colour solutions**

	Form	Flank	'NF	Deep	Surface	Rockers
	Frames		Plates			
<b>Plastic</b>	•	•	•	•	-	•
<b>Metal</b>	•	•	•	•	•	•
<b>Metal HT</b>	-	-	-	•	•	•
<b>Fenix NTM®</b>	-	-	•	•	•	•

For more information see page 212





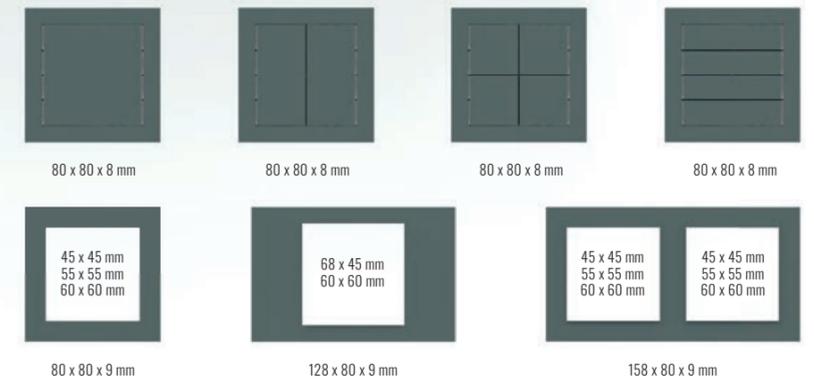
**71 'NF'**  
WALL-MOUNT DEVICES

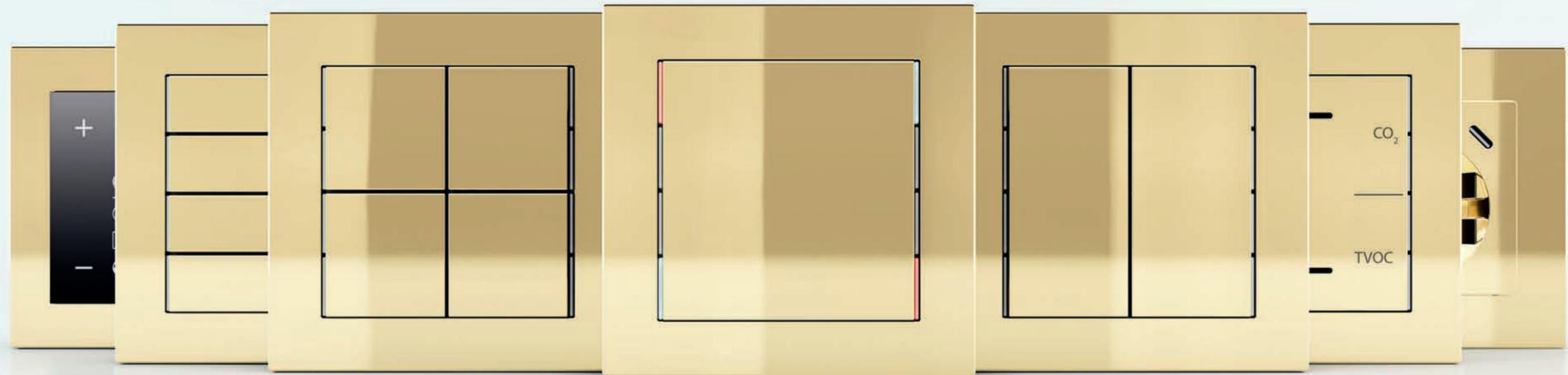
**Simple and rational.** Frameless, the 'NF' version of the 71 series features devices with integrated LEDs with adjustable light intensity, power sockets and keystone modules. The materials used are plastic, metal, Metal HT, the nanotechnological Fenix NTM® and the different finishes can be freely combined to each other.

Available colour solutions

	Form	Flank	'NF'	Deep	Surface	Rockers
	Frames		Plates			
<b>Plastic</b>	•	•	•	•	-	•
<b>Metal</b>	•	•	•	•	•	•
<b>Metal HT</b>	-	-	-	•	•	•
<b>Fenix NTM®</b>	-	-	•	•	•	•

For more information see page 212





## 71 Deep

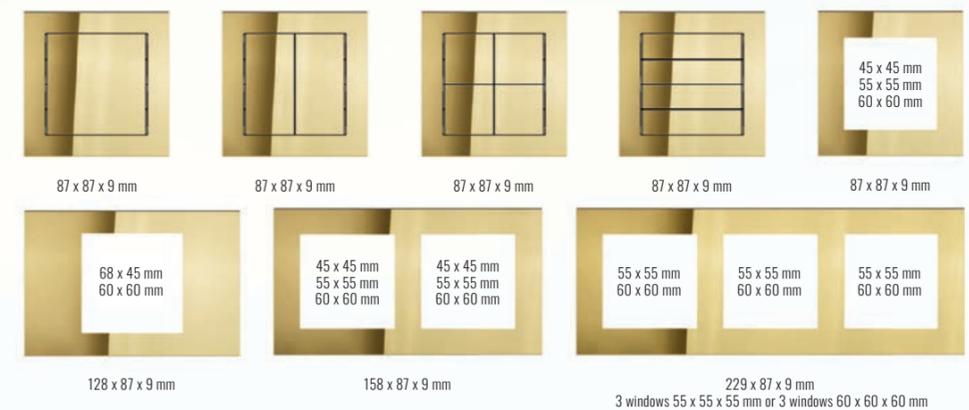
WALL-MOUNT DEVICES

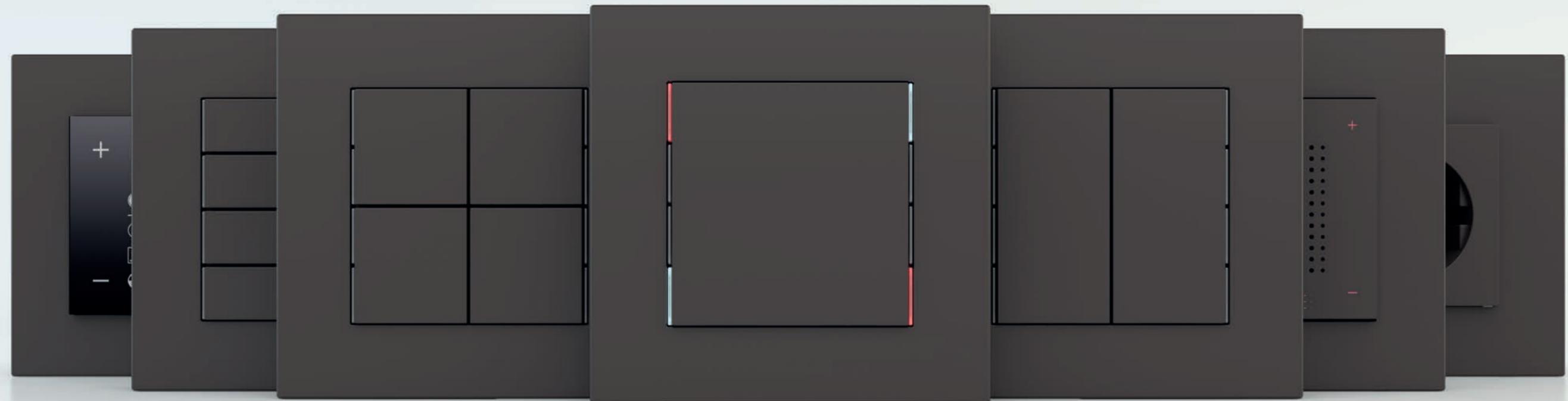
**Slim and elegant.** The Deep version of the 71 series features devices with integrated LEDs with adjustable light intensity, power sockets and keystone modules. The materials used are plastic, metal, Metal HT, the nanotechnological Fenix NTM®. The different finishes can be freely combined with each other, to match even the most eclectic and design-intensive spaces.

**Available colour solutions**

	Form	Flank	'NF	Deep	Surface	Rockers
	Frames		Plates			
<b>Plastic</b>	•	•	•	•	-	•
<b>Metal</b>	•	•	•	•	•	•
<b>Metal HT</b>	-	-	-	•	•	•
<b>Fenix NTM®</b>	-	-	•	•	•	•

For more information see page 212





## 71 Surface

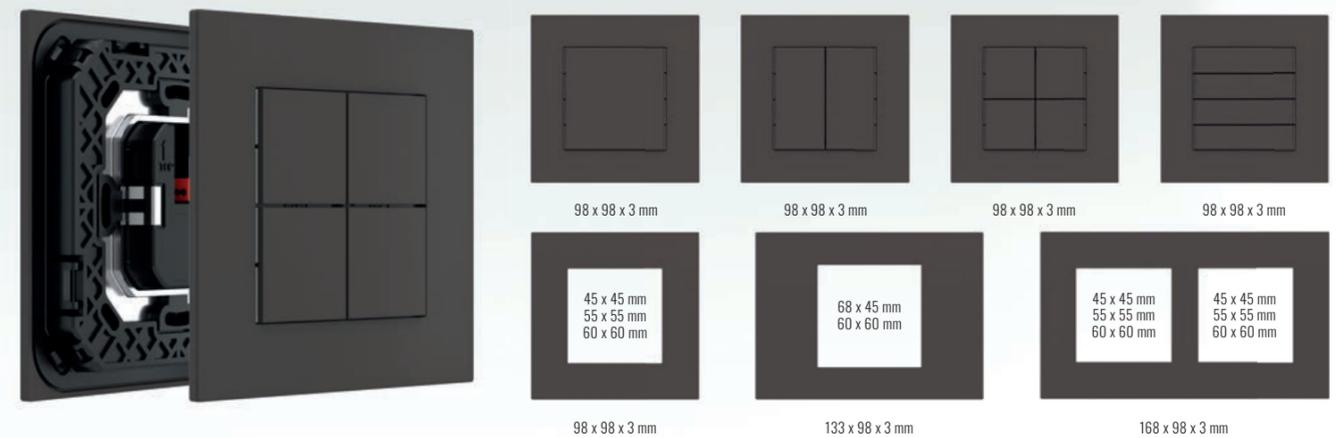
WALL-MOUNT DEVICES

**Essentiality and functionality for the contemporary home.** Designed to create a continuum with the wall, the Surface version of the 71 series integrates with the background until it almost becomes part of it. It features devices with integrated LEDs with adjustable light intensity, power sockets and keystone modules. The different available combinations make it particularly versatile and successful in the most different situations. The materials used are metal, Metal HT and the nanotechnological Fenix NTM®.

**Available colour solutions**

	Form	Flank	'NF	Deep	Surface	Rockers
	Frames		Plates			
<b>Plastic</b>	•	•	•	•	-	•
<b>Metal</b>	•	•	•	•	•	•
<b>Metal HT</b>	-	-	-	•	•	•
<b>Fenix NTM®</b>	-	-	•	•	•	•

For more information see page 212



98 x 98 x 3 mm

45 x 45 mm  
55 x 55 mm  
60 x 60 mm

68 x 45 mm  
60 x 60 mm

45 x 45 mm  
55 x 55 mm  
60 x 60 mm

45 x 45 mm  
55 x 55 mm  
60 x 60 mm

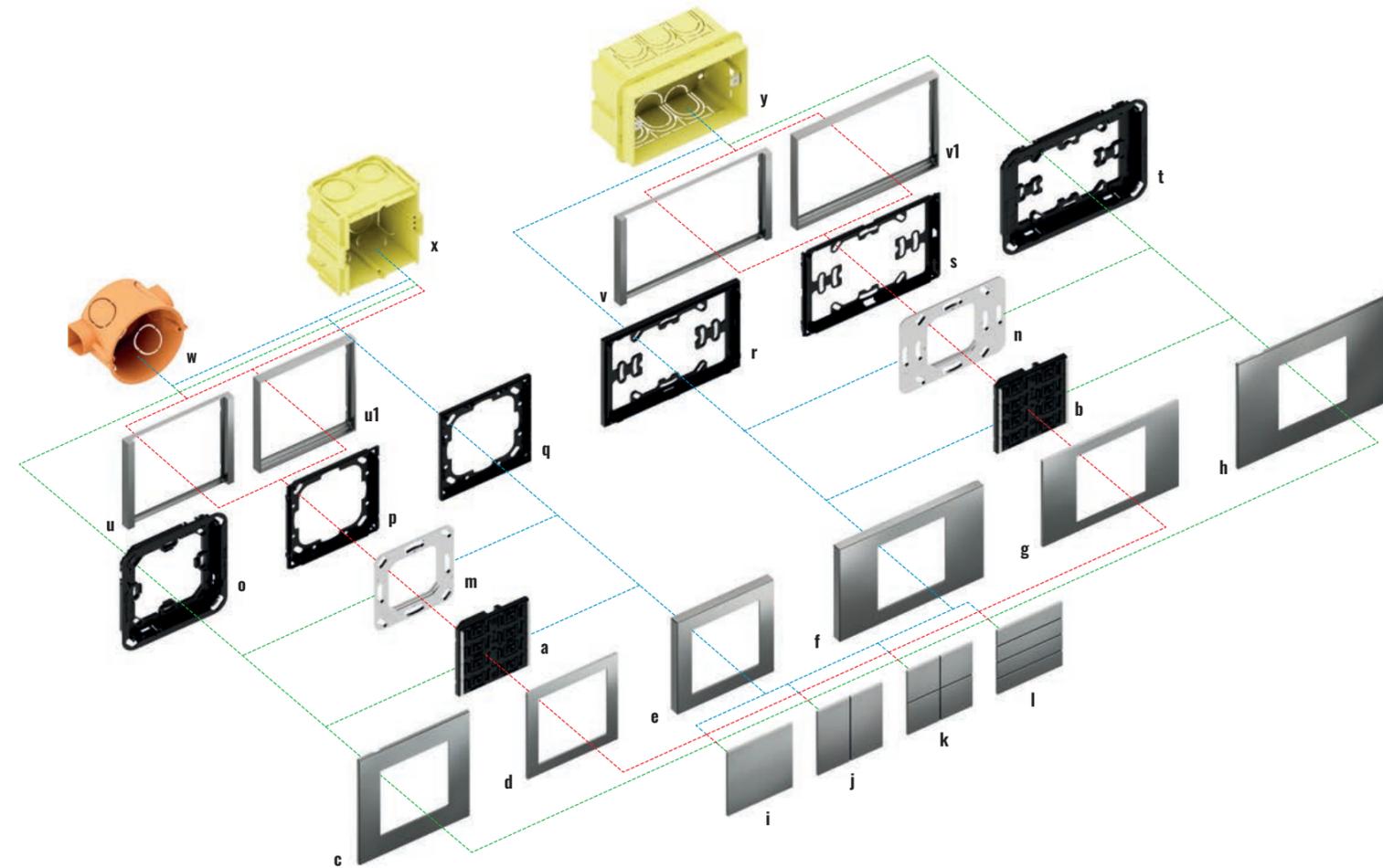
98 x 98 x 3 mm

133 x 98 x 3 mm

168 x 98 x 3 mm

# Pushbuttons 71 series

WALL-MOUNT DEVICES

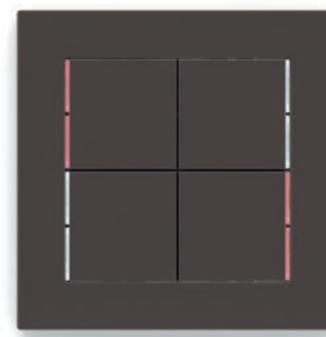


**71 series: infinite number of combinations for a unique style. The series of 71 buttons are available in square or rectangular version with single, double or triple window (Deep version only).**

The Ekinex® pushbuttons of 71 series range and related accessories offer the possibility to realize several variations that will satisfy the most diverse needs. The base is represented by the device which is fitted with a KNX communication module. The pushbutton is suitable for mounting into a flush mounting box, either round or square, provided with fixing holes 60 mm apart and for mounting into a rectangular wall mounting box 3 seater according to the Italian installation standard provided with fixing holes 83,5 mm apart. Each pushbutton is delivered with a terminal block and two pairs of fixing screws.

The pushbuttons must be finished off with its relative metal support, a plastic adapter, an operation surface (rockers), a plate with 60 x 60 mm window and a frame. The rockers are available in square and rectangular shapes of different modularities, in plastic material, aluminium or Fenix NTM® and in several colours. Version EK-E13-TP-.. has integrated LEDs which can be programmed freely: as an example, as a status feedback or as an orientation light at night time. Two colour combinations are available for the LEDs: blue / green or red / white. The same version also offers a room thermostat function, thanks to the integrated temperature sensor. The frames, square and rectangular, are available in two stylish alternatives (Form and Flank) and are available in plastic material or aluminium and in several colours and finishings. The 'NF' version of the pushbutton is mounted without frame and is provided with a side profile in white or black colour.

The pushbuttons simply get connected to the unique signal bus cable and do not require auxiliary power supply; the devices are supplied at SELV (Safety Extra Low Voltage) voltage, thus offering a much higher safety level than traditional commands. The configuration and commissioning is carried out by means of the ETS® software. The related application programs can be downloaded from the [www.ekinex.com](http://www.ekinex.com) website.



### Pushbuttons 71 series

Description	Code
<b>a) b)</b> Pushbutton 71 series	EK-E13-TP-... o EK-E23-TP
<b>c)</b> Square plate Surface version*	EK-SQS-...
<b>d)</b> Square plate*	EK-PQS-...
<b>e)</b> Square plate Deep version*	EK-DQP-...
<b>f)</b> Rectangular plate Deep version*	EK-DRS-...
<b>g)</b> Rectangular plate*	EK-PRS-...
<b>h)</b> Rectangular plate Surface version*	EK-SRS-...
<b>i)</b> Square rocker (1)	EK-T1Q-...
<b>j)</b> Rectangular vertical rockers (2)	EK-T2R-...
<b>k)</b> Square rockers (4)	EK-T4Q-...
<b>l)</b> Rectangular horizontal rockers (4)	EK-T4R-...
<b>m)</b> Metal mounting support	EK-SMQ-71-1
<b>n)</b> Metal mounting support with adapter	EK-SMR-71-1

Description	Code
<b>o)</b> Adapter for square Surface plate	EK-TAS-Q-1
<b>p)</b> Adapter for square plate Form or Flank frames	EK-TAQE-1
<b>q)</b> Adapter for square plate 'NF' and Deep version	EK-TAQE-1-NF
<b>r)</b> Adapter for rectangular plate 'NF' and Deep version	EK-TAR-1-NF
<b>s)</b> Adapter for rectangular plate Form or Flank frames	EK-TAR-1
<b>t)</b> Adapter for Surface rectangular plate	EK-TAS-R-1
<b>u)</b> Square frame Flank version	EK-FLQ-...
<b>u1)</b> Square frame Form version	EK-FOQ-...
<b>v)</b> Rectangular frame Flank version	EK-FLR-...
<b>v1)</b> Rectangular frame Form version	EK-FOR-...
<b>w)</b> Round flush-mounting box	not delivered by Ekinex®
<b>x)</b> Square flush-mounting box	not delivered by Ekinex®
<b>y)</b> Rectangular flush-mounting box (3 modules)	not delivered by Ekinex®

\*) 60 x 60 mm window



## 4-fold basic pushbutton 71 series

WALL-MOUNT DEVICES

### Description

The 4-fold pushbutton of Ekinex® 71 series commands loads on/off switching, controls the dimming of lighting devices, controls motor drives for shutters or executes any other programmable command and control function. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box: it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- 4-fold (possibility to configure up to 8 independent functions)
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 70 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 15 mA

### Delivery

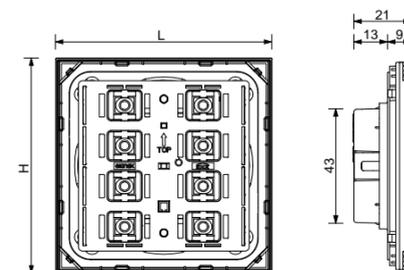
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- set of 1 square rocker, 2 vertical rectangular rockers, 4 square rockers or 4 horizontal rectangular rockers
- square and double frame Form or Flank version
- square, double and triple plate with 60 x 60 mm window
- a plastic adapter
- metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



Mounting with frame: 81 x 77 (L x H)  
Mounting without frame (\*NF): 80 x 80 (L x H)

### Order information

Code	Mounting
EK-E23-TP	with square and double frame Form or Flank version, without frame (*NF version)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE23TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## 4-fold basic pushbutton and room thermostat for rectangular wall-box 71 series

WALL-MOUNT DEVICES

### Description

The 4-fold pushbutton of Ekinex® 71 series commands loads on/off switching, controls the dimming of lighting devices, controls motor drives for shutters or executes any other programmable command and control function. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box: it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- 4-fold (possibility to configure up to 8 independent functions)
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)
- Weight 100 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 15 mA

### Delivery

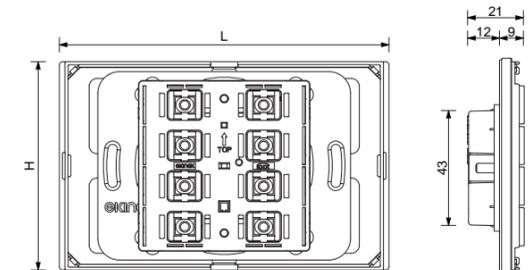
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- set of 1 square rocker, 2 vertical rectangular rockers, 4 square rockers or 4 horizontal rectangular rockers
- rectangular frame Form or Flank version
- rectangular plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]



Mounting with frame: 122 x 77 (L x H)  
Mounting without frame (\*NF): 120 x 80 (L x H)

### Order information

Code	Mounting
EK-E23-TP	with square and double frame Form or Flank version, without frame (*NF version)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE23TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## 4-fold pushbutton and room thermostat 71 series

WALL-MOUNT DEVICES

### Description

The 4-fold pushbutton of Ekinex® 71 series commands loads on/off switching, controls the dimming of lighting devices, controls motor drives for shutters or executes any other programmable command and control function. Thanks to the integrated temperature sensor, the pushbutton can work as a thermostat for a room or a zone. The LED can be chosen in the colour combinations blue / green or white / red. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is powered by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- 4-fold (possibility to configure up to 8 independent functions)
- 4 freely programmable LED for each channel
- 2 colour combination available for the LED (blue / green or red / white)
- Room thermostat function
- Integrated temperature sensor
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 70 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 15 mA

### Delivery

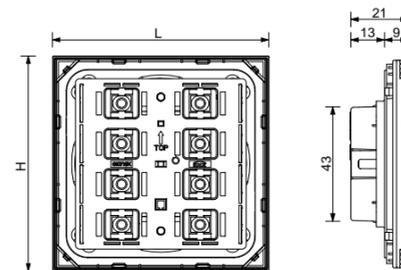
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- set of 1 square rocker, 2 vertical rectangular rockers, 4 square rockers or 4 horizontal rectangular rockers
- square and double frame Form or Flank version
- square, double and triple plate with 60 x 60 mm window
- a plastic adapter
- metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



Mounting with frame: 81 x 77 (L x H)  
Mounting without frame (\*NF): 80 x 80 (L x H)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE13TP#.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## 4-fold pushbutton and room thermostat for rectangular wall-box 71 series

WALL-MOUNT DEVICES

### Description

The 4-fold pushbutton of Ekinex® 71 series commands loads on/off switching, controls the dimming of lighting devices, controls motor drives for shutters or executes any other programmable command and control function. Thanks to the integrated temperature sensor, the pushbutton can work as a thermostat for a room or a zone. The LED can be chosen in the colour combinations blue / green or white / red. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is powered by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- 4-fold (possibility to configure up to 8 independent functions)
- 4 freely programmable LED for each channel
- 2 colour combination available for the LED (blue / green or red / white)
- Room thermostat function
- Integrated temperature sensor
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)
- Weight 100 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 15 mA

### Delivery

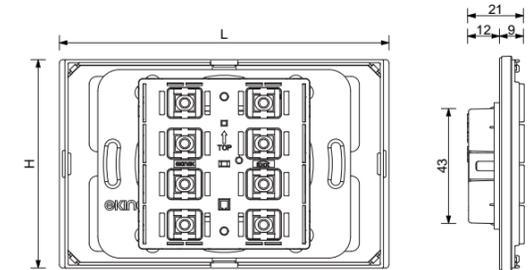
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- set of 1 square rocker, 2 vertical rectangular rockers, 4 square rockers or 4 horizontal rectangular rockers
- rectangular frame Form or Flank version
- rectangular plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]



Mounting with frame: 122 x 77 (L x H)  
Mounting without frame (\*NF): 120 x 80 (L x H)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE13TP#.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Room thermostats

WALL-MOUNT DEVICES

**Create a positive atmosphere.** The different operating modes of the 71 series room temperature control allow you to adapt the control to your needs, save energy and ensure your comfort. The numerous integrated functions ensure a comfortable environment in all seasons. The 71 room temperature control will make you want to come back home.

### Available colour solutions

	Form	Flank	'NF	Deep	Surface
	Frames		Plates		
Plastic	•	•	•	•	-
Metal	•	•	•	•	•
Metal HT	-	-	-	•	•
Fenix NTM®	-	-	•	•	•

For more information see page 212



86 x 86 x 8 mm  
**Form**



94 x 86 x 8 mm  
**Flank**



80 x 80 x 8 mm  
**'NF**



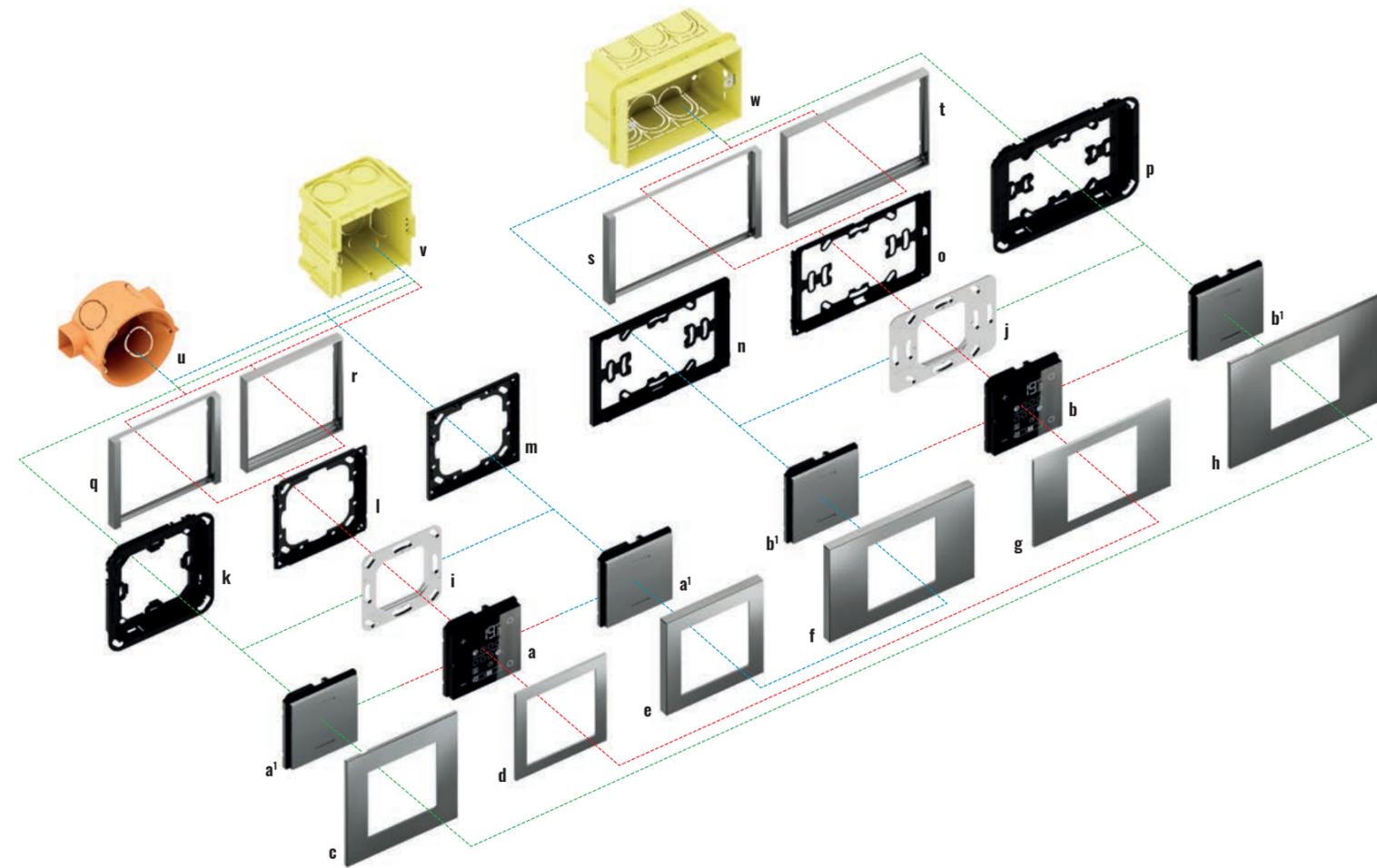
86 x 86 x 9 mm  
**Deep**



98 x 98 x 3 mm  
**Surface**

# Room thermostats 71 series

WALL-MOUNT DEVICES



Many different combinations, possibilities installation horizontally or vertically, 71 room temperature control meets all requirements. Yours too...

The Ekinex® thermostats of 71 series range and related accessories offer the possibility to realize several variations that will satisfy the most diverse needs. The base is represented by the device which is fitted with a KNX communication module. The thermostat is suitable for mounting into a flush mounting box, either round or square, provided with fixing holes 60 mm apart or for mounting into a rectangular wall mounting box 3 modules according to the Italian installation standard provided with fixing holes 83,5 mm apart. Each thermostat is delivered with a terminal block and two pairs of fixing screws.

Depending on the version, the thermostat must be completed with its relative metal support, a plastic adapter, a square or rectangular plate with 60 x 60 mm window and a square or rectangular frame. The frames are available in two stylish alternatives (Form and Flank). Plates and frames are in plastic material, aluminium or Fenix NTM®, in several colour and finishing variations. The \*NF versions of the thermostats are mounted without frame and are provided with a side profile in white or black colour.

The thermostats simply get connected to the unique signal bus cable and do not require auxiliary power supply; the devices are powered at SELV (Safety Extra Low Voltage) voltage, thus offering a much higher safety level than traditional commands. The configuration and commissioning is carried out by means of the ETS® software. The related application programs can be downloaded from the [www.ekinex.com](http://www.ekinex.com) website.



### Room thermostats and Multisensors 71 series

Description	Code
a) b) Thermostat 71 series	EK-E73-TP
a) b1) Multisensor 71 series	EK-ET3-TP or EK-ES3-TP
c) Square plate Surface version*	EK-SQS-...
d) Square plate*	EK-PQS-...
e) Square plate Deep version*	EK-DQP-...
f) Rectangular plate Deep version*	EK-DRS-...
g) Rectangular plate*	EK-PRS-...
h) Rectangular plate Surface version*	EK-SRS-...
i) Metal mounting support	EK-SMQ-71-1
j) Metal mounting support with adapter	EK-SMR-71-1
k) Adapter for square Surface plate	EK-TAS-Q-1
l) Adapter for square plate Form or Flank frames	EK-TAQE-1

Description	Code
m) Adapter for square plate *NF and Deep version	EK-TAQE-1-NF
n) Adapter for rectangular plate *NF and Deep version	EK-TAR-1-NF
o) Adapter for rectangular plate Form or Flank frames	EK-TAR-1
p) Adapter for Surface rectangular plate	EK-TAS-R-1
q) Square frame Flank version	EK-FLQ-...
r) Square frame Form version	EK-FOQ-...
s) Rectangular frame Flank version	EK-FLR-...
t) Rectangular frame Form version	EK-FOR-...
u) Round flush-mounting box	not delivered by Ekinex®
v) Square flush-mounting box	not delivered by Ekinex®
w) Rectangular flush-mounting box (3 modules)	not delivered by Ekinex®

\* ) 60 x 60 mm window



## Room thermostat 71 series

WALL-MOUNT DEVICES

### Description

The Ekinex® room temperature controller of 71 series regulates independently the temperature of a room or a zone. In combination with one or more KNX actuators, the room temperature controller is able to control the heating and cooling emission of a series of terminal units for the thermal exchange (such as radiators, fan-coils, floor and ceiling radiant panels, etc.). The device is provided with a LCD-Display with adjustable backlight, and a sensor for temperature measuring. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is powered by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- LCD-Display with adjustable backlight
- 4 capacitive pushbuttons for controlling of the thermostat functions
- Integrated temperature sensor
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 90 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 13 mA

### Delivery

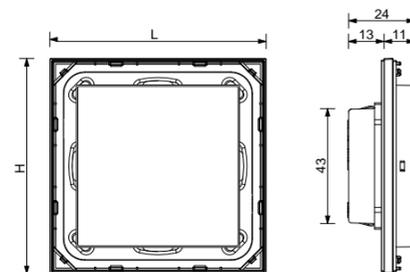
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- square and double frame Form or Flank version
- square, double and triple plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



Mounting with frame: 81 x 77 (L x H)  
Mounting without frame (NF): 80 x 80 (L x H)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE73TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Room thermostat for rectangular wall-box 71 series

WALL-MOUNT DEVICES

### Description

The Ekinex® room temperature controller of 71 series regulates independently the temperature of a room or a zone. In combination with one or more KNX actuators, the room temperature controller is able to control the heating and cooling emission of a series of terminal units for the thermal exchange (such as radiators, fan-coils, floor and ceiling radiant panels, etc.). The device is provided with a LCD-Display with adjustable backlight, and a sensor for temperature measuring. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is powered by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- LCD-Display with adjustable backlight
- 4 capacitive pushbuttons for controlling of thermostat functions
- Integrated temperature sensor
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)
- Weight 120 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 13 mA

### Delivery

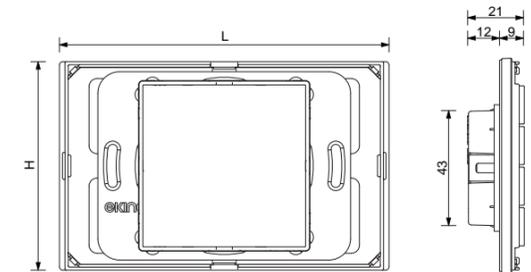
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- rectangular frame Form or Flank version
- rectangular plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]



Mounting with frame: 122 x 77 (L x H)  
Mounting without frame (NF): 120 x 80 (L x H)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKE73TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Multisensor quality air with regulator

WALL-MOUNT DEVICES

### Description

The Ekinex® multisensor 71 series detects values of temperature, relative humidity and CO<sub>2</sub> equivalent concentration in an air mass. The device can act as a temperature regulator of a room or zone; it can also perform the regulation by thresholds of relative humidity and CO<sub>2</sub> concentration. The frontal LEDs indicate if the device is in heating, cooling, dehumidification or CO<sub>2</sub> threshold mode. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- Integrated temperature and relative humidity sensors
- Integrated VOCs (Volatile Organic Compounds) sensor with output signal for CO<sub>2</sub> equivalent
- Room thermostat function
- Threshold regulator function for relative humidity and CO<sub>2</sub>
- LEDs for heating, cooling, dehumidification or CO<sub>2</sub> threshold mode indication
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 90 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 13 mA

### Delivery

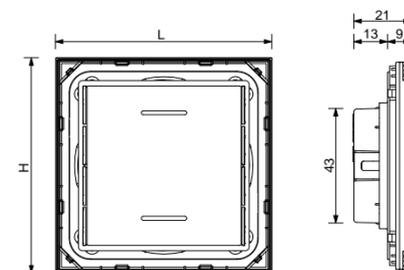
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- 1 full front cover with 60 x 60 mm modularity
- square and double frame Form or Flank version
- square, double and triple plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



Mounting with frame: 81 x 77 (L x H)  
Mounting without frame (NF): 80 x 80 (L x H)

### Order information

Code	Mounting
EK-ET3-TP	with square and double frame Form or Flank version, without frame (NF version)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKET3TP#.#knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Multisensor quality air with regulator for rectangular wall-box

WALL-MOUNT DEVICES

### Description

The Ekinex® multisensor 71 series detects values of temperature, relative humidity and CO<sub>2</sub> equivalent concentration in an air mass. The device can act as a temperature regulator of a room or zone; it can also perform the regulation by thresholds of relative humidity and CO<sub>2</sub> concentration. The frontal LEDs indicate if the device is in heating, cooling, dehumidification or CO<sub>2</sub> threshold mode. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- Integrated temperature and relative humidity sensors
- Integrated VOCs (Volatile Organic Compounds) sensor with output signal for CO<sub>2</sub> equivalent
- Room thermostat function
- Threshold regulator function for relative humidity and CO<sub>2</sub>
- LEDs for heating, cooling, dehumidification or CO<sub>2</sub> threshold mode indication
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)
- Weight 120 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 13 mA

### Delivery

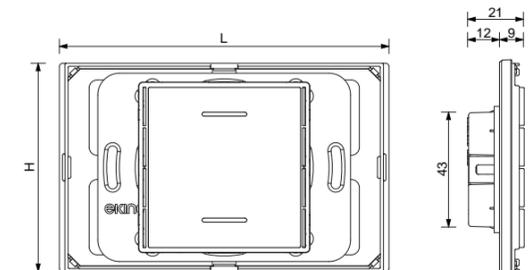
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws

### Accessories

The following accessories are available to be ordered separately:

- 1 full front cover with 60 x 60 mm modularity
- rectangular frame Form or Flank version
- rectangular plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]



Mounting with frame: 122 x 77 (L x H)  
Mounting without frame (NF): 120 x 80 (L x H)

### Order information

Code	Mounting
EK-ET3-TP	with square and double frame Form or Flank version, without frame (NF version)



### Configuration and commissioning

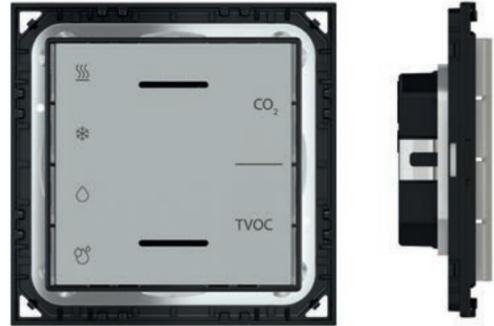
By means of ETS5 software or later versions  
Application program: **APEKET3TP#.#knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Multisenor with humidity, TVOC and CO<sub>2</sub> eq. regulator

WALL-MOUNT DEVICES

### Description

The Ekinex® multisenor with controller is a KNX S-mode device for independent temperature control of a room or building area. The module includes 3 sensors: temperature, humidity percentage and air quality, expressed in terms of TVOC (Total Volatile Organic Compounds) or CO<sub>2</sub> equivalent. It can also function as a controller for these three quantities, valid for a single zone to be controlled. The front LEDs indicate the heating, cooling, dehumidification, humidification and TVOC or CO<sub>2</sub> threshold status. The push-button and the programming LED are located on the front in the area below the button. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- Integrated temperature and relative humidity sensors
- VOC (Volatile Organic Compounds) sensor with output signal for CO<sub>2</sub> equivalent and TVOC
- Room thermostat function
- Threshold regulator function for relative humidity, TVOC and CO<sub>2</sub>
- Available an alarm signal on the CO<sub>2</sub> level also useful to obtain 1 LEED certification point
- Compatibility with Belimo actuators for the control of dampers in VAV boxes and 6-way valves
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round or square wall box
- IP20 protection degree (installed)
- Weight 90 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 13 mA
- Max. bus power < 390 mW

### Delivery

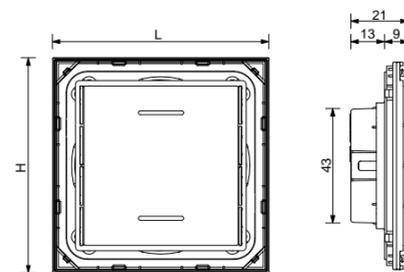
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- 1 full front cover with 60 x 60 mm modularity
- square and double frame Form or Flank version
- square, double and triple plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



Mounting with frame: 81 x 77 (L x H)  
Mounting without frame (NF): 80 x 80 (L x H)

### Order information

Code	Mounting
EK-ES3-TP	with square and double frame Form or Flank version, without frame (NF version)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKES3TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Multisenor with humidity, TVOC and CO<sub>2</sub> eq. regulator for rectangular wall-box

WALL-MOUNT DEVICES

### Description

The Ekinex® multisenor with controller is a KNX S-mode device for independent temperature control of a room or building area. The module includes 3 sensors: temperature, humidity percentage and air quality, expressed in terms of TVOC (Total Volatile Organic Compounds) or CO<sub>2</sub> equivalent. It can also function as a controller for these three quantities, valid for a single zone to be controlled. The front LEDs indicate the heating, cooling, dehumidification, humidification and TVOC or CO<sub>2</sub> threshold status. The push-button and the programming LED are located on the front in the area below the button. The device integrates a KNX bus communication module and is intended for mounting onto a wall mounting box; it is supplied by a SELV voltage directly from the KNX bus and does not require any auxiliary power supply.

### Main features

- Integrated temperature and relative humidity sensors
- VOC (Volatile Organic Compounds) sensor with output signal for CO<sub>2</sub> equivalent and TVOC
- Room thermostat function
- Threshold regulator function for relative humidity, TVOC and CO<sub>2</sub>
- Available an alarm signal on the CO<sub>2</sub> level also useful to obtain 1 LEED certification point
- Compatibility with Belimo actuators for the control of dampers in VAV boxes and 6-way valves
- Plastic casing
- Connection to bus line with KNX terminal block
- Frontal programming pushbutton and LED
- Wall-mounting installation on round, square or rectangular wall box
- IP20 protection degree (installed)
- Weight 120 g (with mounting support)

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 13 mA
- Max. bus power < 390 mW

### Delivery

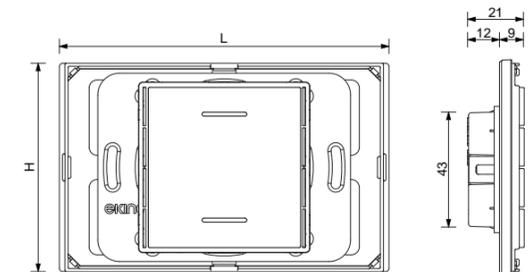
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- 1 full front cover with 60 x 60 mm modularity
- rectangular frame Form or Flank version
- rectangular plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]



Mounting with frame: 122 x 77 (L x H)  
Mounting without frame (NF): 120 x 80 (L x H)

### Order information

Code	Mounting
EK-ES3-TP	with square and double frame Form or Flank version, without frame (NF version)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKES3TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





VOICE ASSISTANT  
WALL-MOUNT DEVICES





## Eségúo voice assistant

WALL-MOUNT DEVICES  
COMING SOON

Wall-mounted device, with smart speaker function, which can be integrated with Amazon's Alexa artificial intelligence and Google Assistant. In combination with Delégo Ekinex, it manages scenarios and commands, in addition to the usual Alexa functions. A perfect family feeling with all Ekinex series.

### Available colour solutions

	Form	Flank	'NF	Deep	Surface	Front cover*
	Frames		Plates			
Plastic	•	•	•	•	-	•
Metal	•	•	•	•	•	•
Metal HT	-	-	-	•	•	-
Fenix NTM®	-	-	•	•	•	•

\* The metal or Fenix NTM® colour effect is achieved by painting  
For more information see page 212



86 x 86 x 8 mm  
**Form**



94 x 86 x 8 mm  
**Flank**



80 x 80 x 8 mm  
**'NF'**



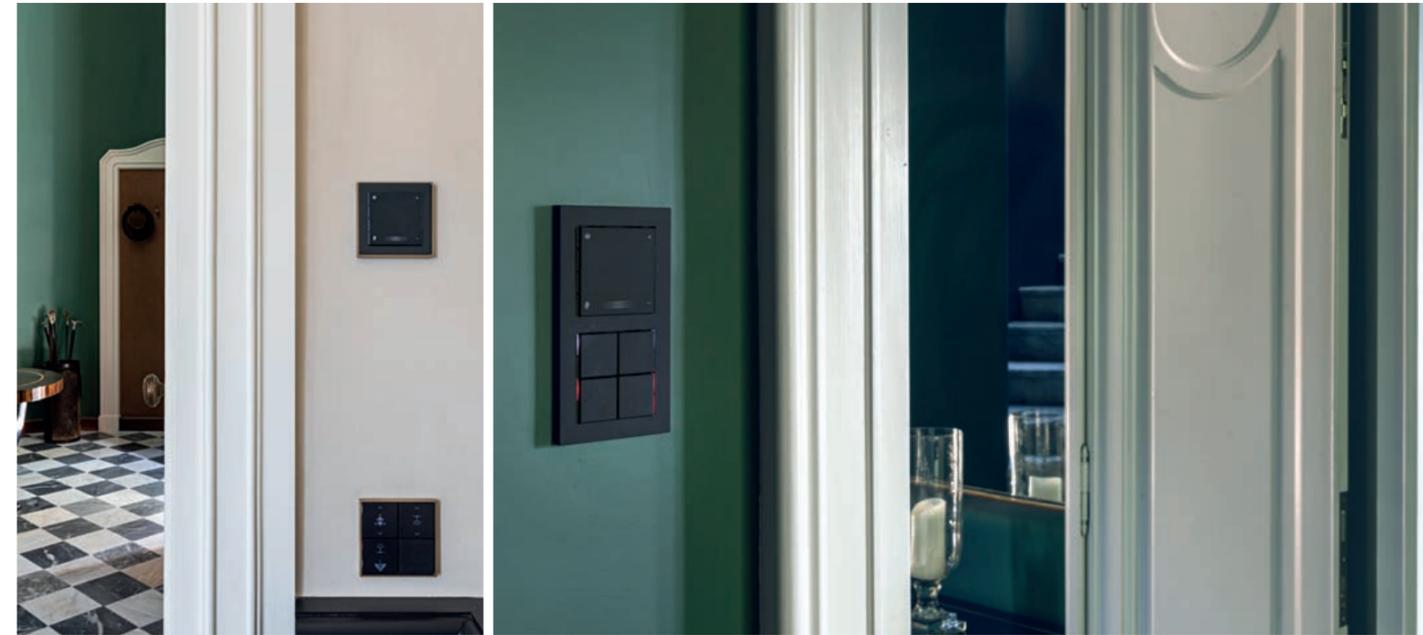
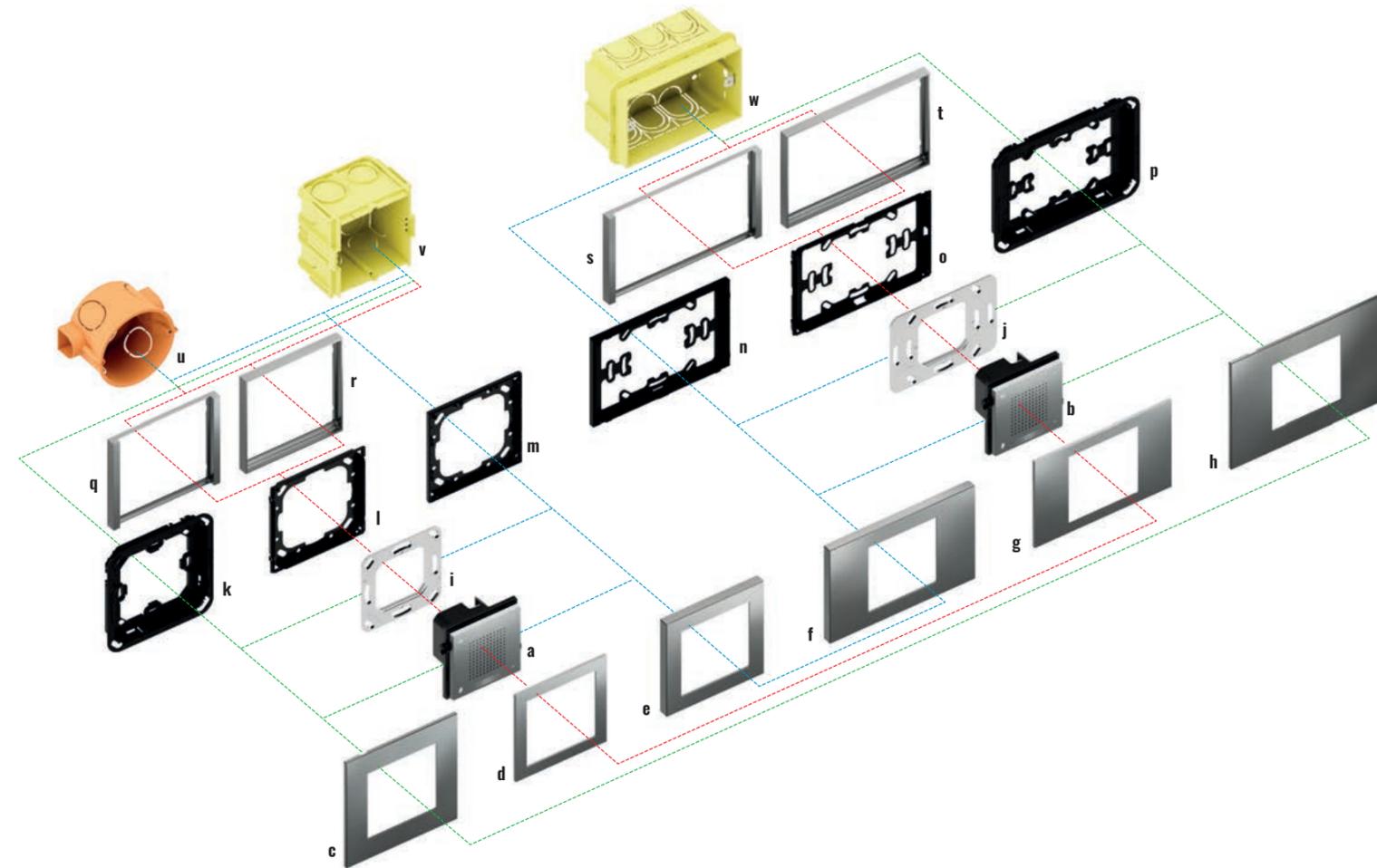
86 x 86 x 9 mm  
**Deep**



98 x 98 x 3 mm  
**Surface**

## Eséguo voice assistant

WALL-MOUNT DEVICES  
COMING SOON



The Eséguo voice assistant based on the Amazon Alexa platform and certified Alexa built-in and its accessories offer the possibility of numerous customisations to meet the most diverse needs.

The EK-VA2-WL... voice assistant, which contains a WiFi communication module, is suitable for mounting on a round or square wall-mounted flush-mounted box with 60 mm fixing holes, or for mounting on an Italian standard 3-post rectangular wall-mounted box with 83.5 mm fixing holes. Each device is supplied with its own metal mounting bracket, which can also be ordered separately if required. Fixing screws complete the supply.

Depending on the version, the voice assistant must be completed with its relative metal support, a plastic adapter, a square or rectangular plate with a 60 x 60 mm window and a square or rectangular frame. The plates are available in plastic, aluminium, Metal HT or Fenix NTM® in a variety of colours and finishes. The frames are available in two formal solutions (Form and Flank) in plastic or aluminium. 'NF' versions of the voice assistant are mounted without a frame and have a choice of black or white side profile.

The voice assistants are connected to a 12-24 Vdc power supply; configuration and commissioning is done via a dedicated app. Using the Alexa App, skill can be configured to control home automation equipment and KNX systems via Delégo.

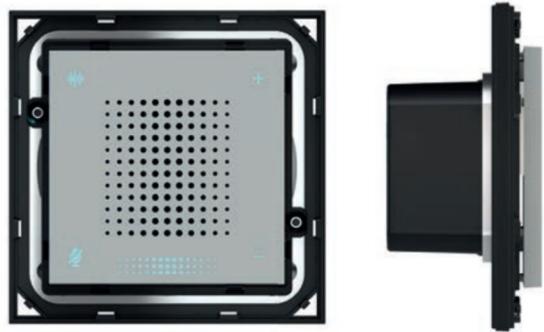
### Eséguo voice assistant

Description	Code
<b>a) b)</b> Eséguo voice assistant	EK-VA2-WL-...
<b>c)</b> Square plate Surface version*	EK-SQS-...
<b>d)</b> Square plate*	EK-PQS-...
<b>e)</b> Square plate Deep version*	EK-DQP-...
<b>f)</b> Rectangular plate Deep version*	EK-DRS-...
<b>g)</b> Rectangular plate*	EK-PRS-...
<b>h)</b> Rectangular plate Surface version*	EK-SRS-...
<b>i)</b> Metal mounting support	EK-SMQ-71-1
<b>j)</b> Metal mounting support	EK-SMR-71-1
<b>k)</b> Adapter for square Surface plate	EK-TAS-Q-1
<b>l)</b> Adapter for square plate Form or Flank frames	EK-TAQE-1

Description	Code
<b>m)</b> Adapter for square plate 'NF' and Deep version	EK-TAQE-1-NF
<b>n)</b> Adapter for rectangular plate 'NF' and Deep version	EK-TAR-1-NF
<b>o)</b> Adapter for rectangular plate Form or Flank frames	EK-TAR-1
<b>p)</b> Adapter for Surface rectangular plate	EK-TAS-R-1
<b>q)</b> Square frame Flank version	EK-FLQ-...
<b>r)</b> Square frame Form version	EK-FOQ-...
<b>s)</b> Rectangular frame Flank version	EK-FLR-...
<b>t)</b> Rectangular frame Form version	EK-FOR-...
<b>u)</b> Round flush-mounting box	not delivered by Ekinex®
<b>v)</b> Square flush-mounting box	not delivered by Ekinex®
<b>w)</b> Rectangular flush-mounting box (3 modules)	not delivered by Ekinex®

\*) 60 x 60 mm window





## Eséguo voice assistant

WALL-MOUNT DEVICES  
COMING SOON

### Description

Voice assistant for wall box installation. The connection is WiFi only and can therefore be installed in any domestic installation, as it does not require a KNX standard connection.

### Main features

- Cloud-based voice assistant that interprets natural language to interact with the user
- Ability to request information and control compatible devices, apps and services to perform specific actions, including smart home actions. All through voice.

### Some examples

- Web searches and real-time updates on traffic, weather, sports, news, etc.
- Entertainment: streaming music as a command to other devices (radio, Spotify, Amazon Music, Deezer, Apple Music, etc.) and videos on smart displays using services such as Prime Video, Netflix, or via Fire TV Stick or Fire TV Cube
- Manage your calendar (appointments, alarms and reminders)
- Manage your shopping and to-do list
- Home automation and smart home control: WiFi bulbs, smart outlets, smart thermostats, IP cameras, wireless video surveillance systems, smart locks and other connected devices.
- Automatic installation of updates through the cloud
- Customisation by installing skills, i.e. additional functionality created by third parties, to increase interaction between Alex and other services, products and platforms

### Technical Data

- Power supply 12-24 Vdc
- Current consumption 4 W
- Wall mounting on round or square box
- Degree of protection IP20 (installed)
- Plastic housing and front cover
- Climatic classification 3K5 and mechanical classification 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Dimensions: 80 x 80 x 38.5 mm (square) or 120 x 80 x 38.5 mm (rectangular)
- Operating temperature: - 5... + 45°C

- Storage temperature: - 25... + 55°C
- Transport temperature: - 25... + 70°C
- Relative humidity: 95% non-condensing

### Delivery

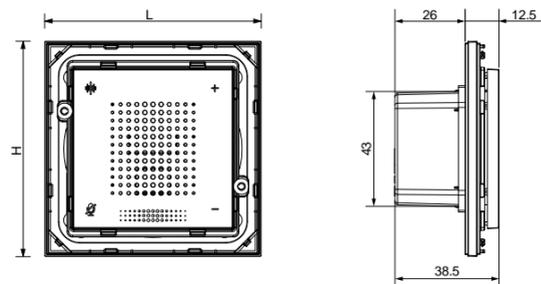
Delivery includes a terminal block for connection to the power supply, two pairs of fixing screws.

### Accessories

The following accessories are available for the completion and must be ordered separately:

- square and double frame Form or Flank version
- square, double and triple plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square mounting box (fixing holes 60 mm apart)

### Dimensions [mm]



Mounting with frame: 81 x 77 (L x H)  
Mounting without frame (\*NF): 80 x 80 (L x H)



### Configuration and commissioning

Through dedicated App



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Eséguo voice assistant for rectangular wall-box

WALL-MOUNT DEVICES  
COMING SOON

### Description

Voice assistant for wall box installation. The connection is WiFi only and can therefore be installed in any domestic installation, as it does not require a KNX standard connection.

### Main features

- Cloud-based voice assistant that interprets natural language to interact with the user
- Ability to request information and control compatible devices, apps and services to perform specific actions, including smart home actions. All through voice.

### Some examples

- Web searches and real-time updates on traffic, weather, sports, news, etc.
- Entertainment: streaming music as a command to other devices (radio, Spotify, Amazon Music, Deezer, Apple Music, etc.) and videos on smart displays using services such as Prime Video, Netflix, or via Fire TV Stick or Fire TV Cube
- Manage your calendar (appointments, alarms and reminders)
- Manage your shopping and to-do list
- Home automation and smart home control: WiFi bulbs, smart outlets, smart thermostats, IP cameras, wireless video surveillance systems, smart locks and other connected devices.
- Automatic installation of updates through the cloud
- Customisation by installing skills, i.e. additional functionality created by third parties, to increase interaction between Alex and other services, products and platforms

### Technical Data

- Power supply 12-24 Vdc
- Current consumption 4 W
- Wall mounting on round or square box
- Degree of protection IP20 (installed)
- Plastic housing and front cover
- Climatic classification 3K5 and mechanical classification 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Dimensions: 80 x 80 x 38.5 mm (square) or 120 x 80 x 38.5 mm (rectangular)
- Operating temperature: - 5... + 45°C

- Storage temperature: - 25... + 55°C
- Transport temperature: - 25... + 70°C
- Relative humidity: 95% non-condensing

### Delivery

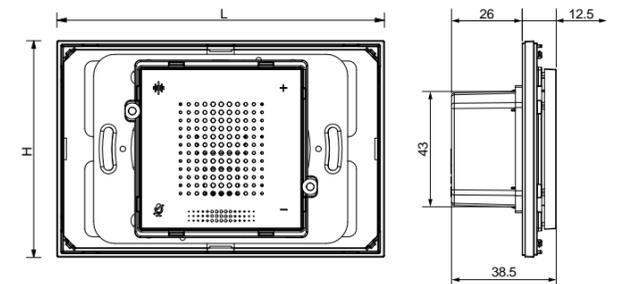
Delivery includes a terminal block for connection to the power supply, two pairs of fixing screws.

### Accessories

The following accessories are available for the completion and must be ordered separately:

- rectangular frame Form or Flank version
- rectangular plate with 60 x 60 mm window
- a plastic adapter
- a metal support for installation onto round or square (fixing holes 60 mm apart) or rectangular (fixing holes 83,5 mm apart) mounting box

### Dimensions [mm]

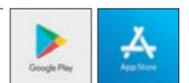


Montaggio con cornice: 122 x 77 (L x H)  
Montaggio senza cornice (\*NF): 120 x 80 (L x H)



### Configuration and commissioning

Through dedicated App



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





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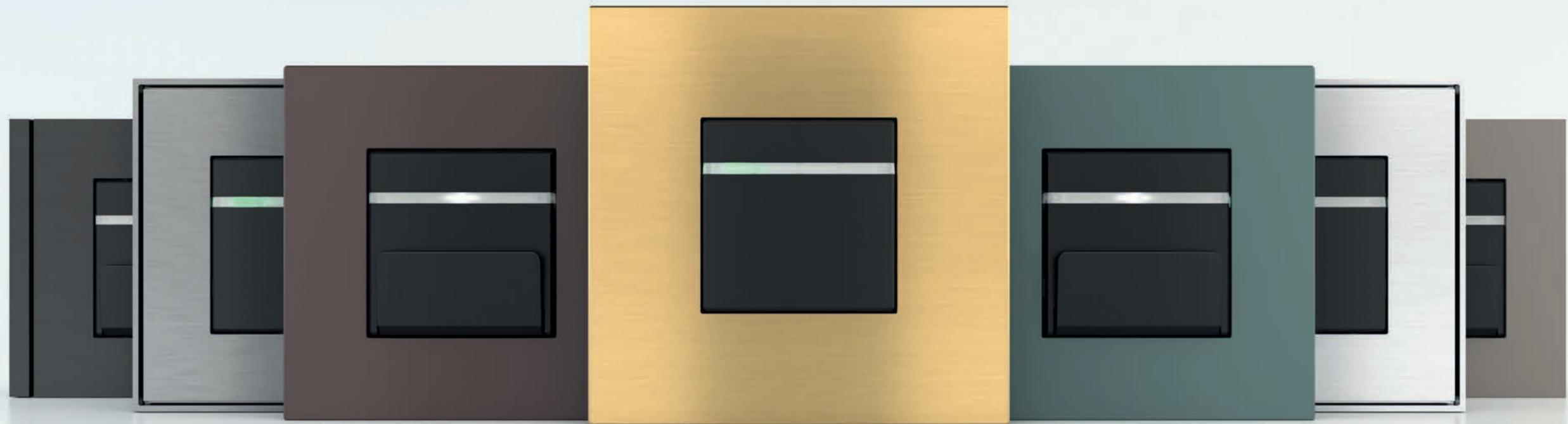
# HOTEL SOLUTIONS

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WALL-MOUNT DEVICES

Card reader	130
Card holder	131
Card programmer	132
Desktop cards programmer kit	133
Accédo Software	134
Smart-card	135
Router Tosibox® Lock	136
USB Tosibox® Key	137





## Hotel solutions

WALL-MOUNT DEVICES

**Ideal for building automation functions in accommodation and hospitality facilities** Ekinex offers advanced solutions for the automation of accommodation facilities, designed to offer guests comfort and environmental quality and high energy efficiency to managers and owners.

### Available colour solutions

	Form	Flank	'NF	Deep	Surface	Card reader Card programmer
	Frames		Plates			
Plastic	•	•	•	•	-	-
Metal	•	•	•	•	•	-
Metal HT	-	-	-	•	•	-
Fenix NTM®	-	-	•	•	•	-

For more information see page 212



86 x 86 x 8 mm  
**Form**



94 x 86 x 8 mm  
**Flank**



80 x 80 x 8 mm  
**'NF**



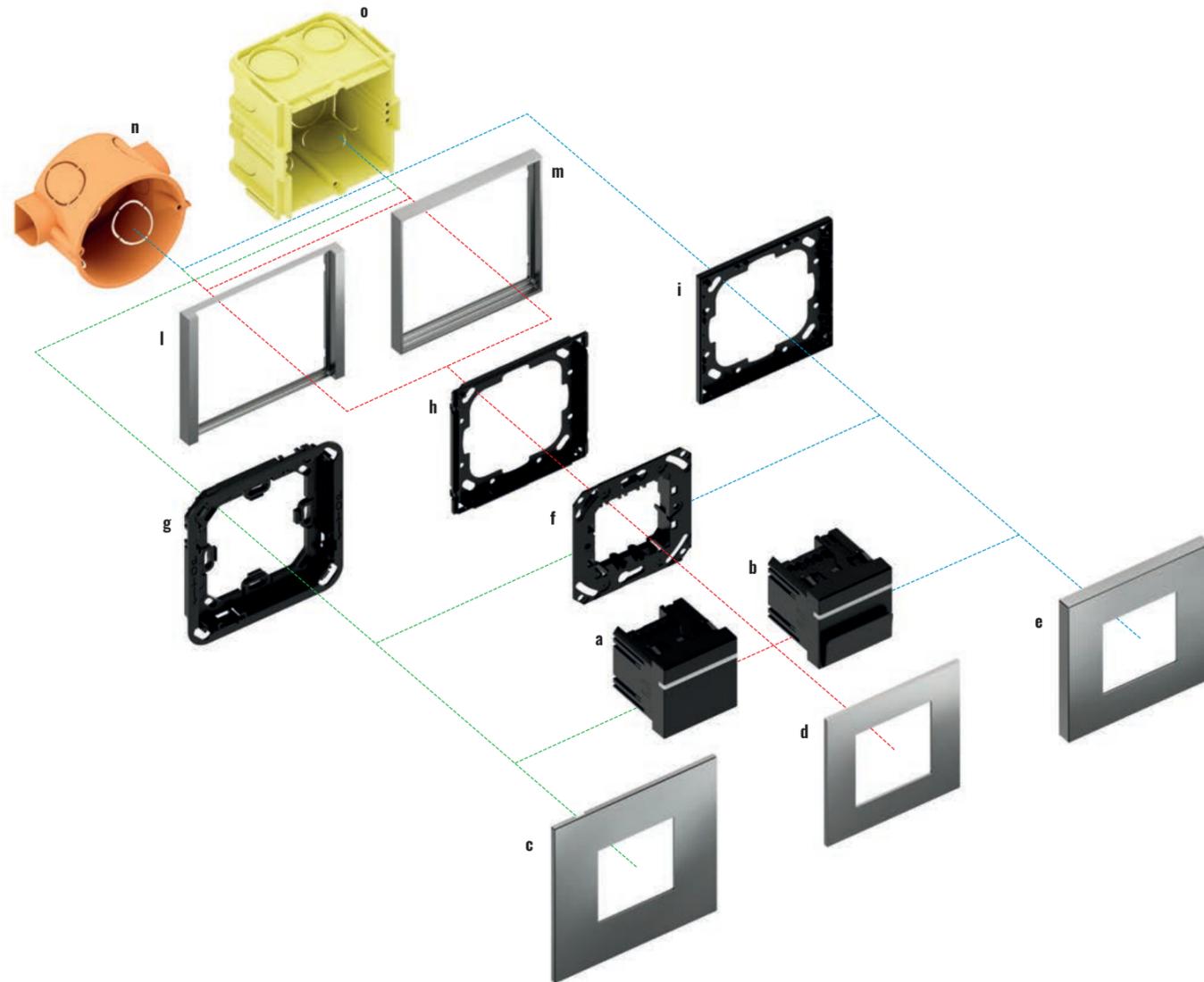
86 x 86 x 9 mm  
**Deep**



98 x 98 x 3 mm  
**Surface**

## Access control

WALL-MOUNT DEVICES



### Access control

Description	Code
a) Card reader	EK-TR2-TP
b) Card holder	EK-TH2-TP
c) Square plate Surface version*	EK-SQG-...
d) Square plate*	EK-PQG-...
e) Square plate Deep version*	EK-DQG-...
f) Adapter for card holder and card reader	EK-SP-TX2
g) Adapter for Surface square plate	EK-TAS-Q-1

Description	Code
h) Adapter for square plate	EK-TAQE-1
i) Adapter for 'NF and Deep square plate	EK-TAQE-1-NF
j) Square frame of Flank version	EK-FLQ-...
k) Square frame of Form version	EK-FOQ-...
l) Round flush-mounting box	not delivered by Ekinex®
m) Square flush-mounting box	not delivered by Ekinex®

\*) 45 x 45 mm window



The use of Ekinex® temperature control devices in combination with the system for access and presence detection, makes it possible to offer guests of a hotel maximum comfort and, at the same time, to safeguard the objectives of energy efficiency and cost savings defined in the technical and economic planning.

KNX devices series for controlled access to rooms and for detection of presence by means of smart-cards. Ideal for creating KNX standard automation functions in hospitality and hospitality structures (hotels, residences, guesthouses or bed & breakfasts) with the aesthetic uniformity of Ekinex® wall products (push-button controls and room thermostats), in combination with products from switchboard (EK-HO1-TP and EK-HU1-TP controllers) and with the Ekinex® Accédo management and supervision software.

The products are equipped with an RFID-type front antenna capable of feeding the smart-card card that is approached and reading the programmed information. The EK-TR2-TP wall reader enables access following validation of the card based on the configured authorizations. The EK-TH2-TP wall pocket activates presence following the insertion of the card in the appropriate front pocket. Both products can manage guest cards of the accommodation facility, based on the system codes, the reservation and the check-in / check-out period, service cards based on time slots and pass-dates. To program cards, use the product EK-TP2-TP, which is very similar to the reader with the possibility of activating the front antenna also for writing operations.

The programming of the cards in the reception area as well as the activation of a reader outside the room and an inside pocket takes place on the KNX network infrastructure. In addition to the power supplied by the KNX bus, an external auxiliary power supply is required for the RFID antenna at 12/24 Vac / dc. The basic programming of the devices as well as the configuration of the automation functions is carried out through the ETS application program: card programming and enabling room and controlled access devices in common areas requires the use of Ekinex® Accédo management and supervision software. Both devices can notify the passage and validation events of each type of card via the KNX bus with an internal buffer to cope with the unavailability of the communication bus due to excessive data traffic.





## Card reader

WALL-MOUNT DEVICES

### Description

The Ekinex® EK-TR2-TP card reader with RFID technology is used for access control in combination with the EK-TH2-TP card holder pocket. Equipped with a bi-stable relay (4A@24Vac/dc), an input for potential-free contacts and a 3-colour front signal LED (white, green and red). The device has an integrated KNX bus communication module and is designed for wall mounting in a flush-mounted box; it is supplied with SELV voltage via the KNX bus and requires an auxiliary power supply at 12-24 Vac/dc.

### Functionality

- Access control via KNX TP bus (twisted pair)
- Enabling access after card validation
- Management of the guest based on the booking and the check-in/check-out time: management of users based on time slots and passe-partouts
- Programmable output for electric lock activation or as simple actuator activated by KNX telegrams
- Validation in progress signalling (green led) or unauthorized card (red led); possibility of enabling the “ don’t disturb” or “camera remake” commands
- Notification of validation events to supervisory system with memory buffer

### Main features

- Plastic casing
- Bus line connection via KNX terminal
- Recessed wall mounting on round box
- Degree of protection IP20 (installed)
- Weight 50 g (with mounting bracket)

### Technical data

- 30 Vdc power supply via KNX bus
- Auxiliary power supply 12-24 Vac/dc
- Current consumption from the bus < 10 mA

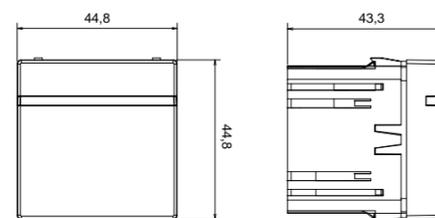
### Delivery

Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

- The following accessories are available to be ordered separately:
- Smart-card EK-TCE-10 (Ekinex logo in black, pack of 10 cards) or EK-TCC-10 (personalised with customer logo, on request)
  - square frame Form or Flank version
  - square plate with 45 x 45 mm window
  - a plastic adapter

### Dimensions [mm]



### Order information

Code	Mounting	Package
EK-TR2-TP	square plate with 45x45 mm window optional frame Form or Flank version	1 pcs.



### Configuration and commissioning

Ekinex® Accédo software for programming access control functions and cards.  
Project file: **APEKTRPTH2TP#.knxproj** (downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Card holder

WALL-MOUNT DEVICES

### Description

The Ekinex® EK-TH2-TP card holder with RFID technology is used for presence detection in combination with the EK-TR2-TP card reader. Equipped with a bistable relay (4A@24Vac/dc), an input for potential-free contacts and a front signal LED (white). The luminaire has an integrated KNX bus communication module and is designed for wall mounting in a flush-mounted box; it is supplied with SELV voltage via the KNX bus and requires an auxiliary power supply at 12-24 Vac/dc.

### Functionality

- Presence detection via bus and communication to supervision system via KNX TP bus (twisted pair)
- Enabling presence after inserting the card into the front pocket
- Guest management of the structure according to the booking and the check-in/check-out period: user management according to time slots and passe-partouts
- Output programmable according to card validation or as actuator activated by KNX telegrams. Delay to card extraction configurable for courtesy light management
- Binary input available for connection of conventional button (with switching, dimming or roller shutter/awning function) or signal contact (e.g. window opening)
- White front LED: flashing when the card is not inserted, off when the card is inserted; LED control via KNX bus telegrams possible
- Notification of presence events detected to supervision system with memory buffer

### Main features

- Plastic casing
- Bus line connection via KNX terminal
- Recessed wall mounting on round box
- Degree of protection IP20 (installed)
- Weight 50 g (with mounting bracket)

### Technical data

- 30 Vdc power supply via KNX bus
- Auxiliary power supply 12-24 Vac/dc
- Current consumption from the bus < 10 mA

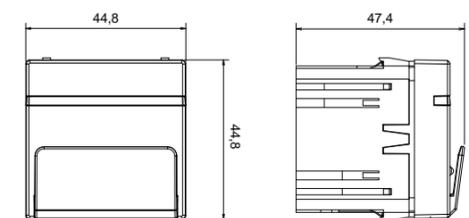
### Delivery

Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

- The following accessories are available to be ordered separately:
- Smart-card EK-TCE-10 (Ekinex logo in black, pack of 10 cards) or EK-TCC-10 (personalised with customer logo, on request)
  - square frame Form or Flank version
  - square plate with 45 x 45 mm window
  - a plastic adapter

### Dimensions [mm]



### Order information

Code	Mounting	Package
EK-TH2-TP	square plate with 45x45 mm window optional frame Form or Flank version	1 pcs.



### Configuration and commissioning

Ekinex® Accédo software for programming access control functions and cards.  
Project file: **APEKTRPTH2TP#.knxproj** (downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Cards programmer

WALL-MOUNT DEVICES

### Description

The Ekinex® EK-TP2-TP card programmer with RFID technology is used for programming cards to be used with the EK-TR2-TP card reader and the Ekinex EK-TH2-TP card holder. Equipped with a bi-stable relay (4A@24Vac/dc) and an input for potential-free contacts the device has an integrated KNX bus communication module and is designed to be mounted in a flush-mounted wall box; it is supplied with SELV voltage via the KNX bus and requires an auxiliary power supply at 12-24 Vac/dc.

### Functionality

- Programming of cards via KNX TP bus (twisted pair) and Ekinex Accédo software
- Card programming with different user profiles: guest, staff and passe-partouts
- Guest booking management and check-in/check-out operation
- Card activation based on time slots for service personnel
- Event notification to the supervision system with memory buffer

### Main features

- Plastic casing
- Bus line connection via KNX terminal
- Recessed wall mounting on round box
- Degree of protection IP20 (installed)
- Weight 50 g (with mounting bracket)

### Technical data

- 30 Vdc power supply via KNX bus
- Auxiliary power supply 12-24 Vac/dc
- Current consumption from the bus < 10 mA

### Delivery

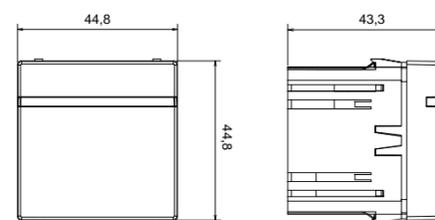
Delivery includes a terminal block for connection to the bus, two pairs of fixing screws.

### Accessories

The following accessories are available to be ordered separately:

- Smart-card EK-TCE-10 (Ekinex logo in black, pack of 10 cards) or EK-TCC-10 (personalised with customer logo, on request)
- square frame Form or Flank version
- square plate with 45 x 45 mm window
- a plastic adapter

### Dimensions [mm]



### Order information

Code	Mounting	Package
EK-TP2-TP	square plate with 45x45 mm window optional frame Form or Flank version	1 pcs.

### Configuration and commissioning

Ekinex® Accédo software for programming access control functions and cards.  
Project file: **APEKTRPTH2TP##.knxproj** (downloadable from [www.ekinex.com](http://www.ekinex.com))

### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Desktop cards programmer kit

WALL-MOUNT DEVICES

### Description

The card programmer kit is a table-top control panel, coordinated with the aesthetic lines of the Ekinex® wall-mounted products, to be installed at one or more reception points in an accommodation facility, in combination with the KNX standard products for controlled access to rooms and public areas EK-TR2-TP and EK-TH2-TP and the Ekinex® Accédo EK-ACC-SW supervision and card programming software.

### Functionality

The programmer kit, suitable for reception desks in hospitality facilities such as hotels and reception centers, is equipped with an elegant frame in pre-painted aluminum in bromine gray and performs the following functions:

- Programming smart-cards with RFID (Radio Frequency Identification) technology, 13.56 MHz frequency, Mifare Classic 1kB protocol
- Signaling via buzzer of the bathroom tie rod alarms
- Alarm silencing through manual button

### Main features

- 1 KNX transponder card programmer cod. EK-TP2-TP
- 1 universal KNX interface EK-CC2-TP (2 IN / 2 OUT)
- 1 buzzer 12Vac, 5VA anthracite Colour
- 1 push button 1P NO, 10A at 250Vac anthracite Colour

The external power supply not included in the supply must be made with transformer 12Vac 1A. The card programmer and the universal interface with 2 inputs and 2 outputs must be connected to the KNX TP bus (twisted pair) by means of the red-black terminal provided.

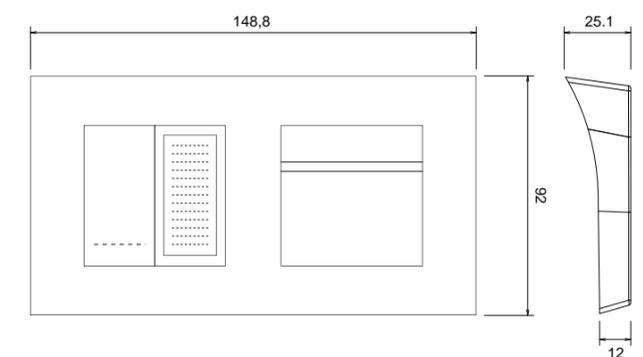
### Other features

- card programming with RFID technology, 13.56 MHz frequency, Mifare protocolo, Classic 1 KB
- 4M table-top box, Colour gray, with plastic housing
- Degree of protection IP20 when installed (according to EN 60529)
- Insulation class II (according to EN 60335-1)
- Climatic classification 3K5 (indoor use, dry) and mechanical classification 3M2 (according to EN50491-2)
- Device weight: 250 g
- Dimensions 148,8 x 92 x 25,1 mm (W x H x D)

### Environmental conditions

- Operating temperature: 0°C ... + 40°C
- Storage temperature: - 10 ... + 70°C
- Transport temperature: - 10 ... + 70°C
- Relative humidity: 95% non condensing

### Dimensions [mm]



### Order information

Code	Mounting	Package
EK-TPBOX-TP	plate with 45x45 mm windows	1 pcs.

### Configuration and commissioning

Ekinex® Accédo software for programming access control functions and cards.  
Project file: **APEKTRPTH2TP##.knxproj** (downloadable from [www.ekinex.com](http://www.ekinex.com))

### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Accédo software

SOFTWARE

### Description

Software for the management of systems technology, particularly suitable for hotels, residences, guesthouses or bed&breakfast. Client-servers' architecture with HTML5 server functionality. Programming of transponder cards for access control, presence detection and (optional) electronic money functionality. Automatic import of ETS projects with easy and intuitive creation of graphic pages, drag&drop functionality, advanced copy/paste and undo/redo. Integrated control of calendars, scenarios and schedules. Interface to other communication protocols such as BACnet, Modbus, M-Bus, etc.

### Requirements

- Operating System: Windows 10 - I/O RS232
- Processor: Intel Core i5 3.3 GHz or higher
- RAM memory: min. 4 GB
- SSD: 240 GB
- Resolution: Full HD

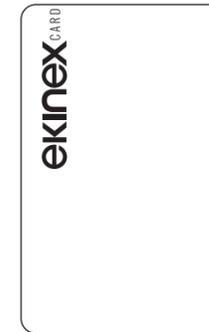
### Order information

Code	Composition	Package
EK-ACC-L12	Software License up to 12 reader	1 pcs.
EK-ACC-L25	Software License up to 25 reader	
EK-ACC-L50	Software License up to 50 reader	
EK-ACC-L100	Software License up to 100 reader	
EK-ACC-L200	Software License up to 200 reader	
EK-ACC-LC	Client License for additional programming workstation	



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Smart-card

ACCESSORIES

### Description

Smart-card with RFID technology to be used with the EK-TR2-TP reader and the EK-TH2-TP card holder for controlled access to rooms and for presence detection in accommodation and hospitality facilities (hotels, residences, guest houses or bed&breakfast).

### Order information

Code	Customization	Package
EK-TCE-10	Ekinex® logo in black colour	10 pcs.
EK-TCC-10	personalized with customer logo	on request



### Configuration and commissioning

The **EK-TP2-TP** card programming device and the **Ekinex® Accédo software**, dedicated to the management of accommodation and hospitality facilities, are required for card programming.





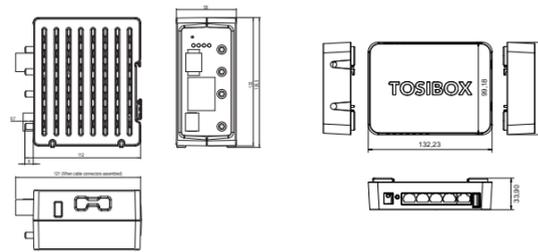
## Tosibox® Lock router

REMOTE ASSISTANCE

### Description

It establish a secure connection via VPN (Virtual Private Network) tunnel with an automation system. The connection can be made via a PC or with one or more iOS or Android smartphone users. If a KNX/IP interface/router is installed on the KNX standard automation system, it can be accessed remotely directly via ETS. Quick and easy physical association between the Lock module and the Key and realization of a point-to-point VPN via the MatchMaking service. Remote connection of installations with Internet connection with dynamic, static and private IP. Possibility to connect modems with 2G/3G/4G radiotelephone network.

### Dimensions [mm]



	Tosibox® Lock 150	Tosibox® Lock 500	Tosibox® Lock 500i
<b>General features</b>			
<b>Power supply</b>	12/24Vdc, with Jack, power supply included	12/48Vdc with connector, power supply not included	12/48Vdc with connector, power supply not included
<b>Installation</b>	external	DIN Rail	DIN Rail
<b>Dimension</b>	132 x 99 x 35.5 mm	110 x 58 x 127 mm	110 x 58 x 127 mm
<b>Temperature range</b>	-20 °C ... +55 °C	-20 °C ... +60 °C	-20 °C ... +60 °C
<b>Degree of protection</b>	IP20	IP20	IP20
<b>Connections</b>			
<b>WAN</b>		1xRJ45 – 10/100TX	
<b>LAN</b>		3xRJ45 – 10/100TX (one door for local service access)	
<b>WiFi</b>		Client mode e Access Point, 802.11b/g/n	
<b>2G/3G/4G</b>	External modem	External modem	Integrated dual-SIM modem
<b>VPN Features</b>			
<b>VPM throughput</b>	10 Mbps	70 Mbps	70 Mbps
<b>VPN Encryption</b>		Blowfish 128 bit CBC, AES 128/192/256 bit CBC	
<b>VPN Authentication</b>		PKI, 3072 bit RSA	
<b>Certifications</b>			
	CE, FCC	CE, FCC, UL	CE, FCC, UL

### Order information

Code	Composition	Package
EK-DEL-TBL1	Tosibox® Lock 150 Router, external installation, for VPN connections with automation system	
EK-TBL5	Tosibox® Lock 500 Router, DIN rail installation, for VPN connections with automation system	1 pcs.
EK-DEL-TBL5-SIM	Tosibox® Lock 500i Router, DIN rail installation, with integrated 2G/3G/4G dual SIM modem, for VPN connections with automation system	

### Awards and recognitions



## USB Tosibox® Key

REMOTE ASSISTANCE



### Description

Quickly and securely create a Virtual Private Network (VPN) tunnel between a PC and one or more Lock routers and generate activation codes for iOS and Android VPN client apps on smartphones using 2048-bit RSA encryption. The Key can be configured as Master Key, Backup Key or Sub Key with limited access to a subset of installations. The Tosibox® SoftKey is a purely software key that can be combined with a Key to avoid transporting the physical dongle.

### Supported operating systems

- Windows 8-10 (32/64 bit)
- Windows 7 (32/64 bit)
- Windows Vista (32/64 bit)
- Windows XP (SP3)
- Mac OS X Leopard 10.5 or newer

### Order information

Code	Composition	Package
EK-DEL-TBK1	Key with Tosibox® Cryptographic microcontroller Key that makes 1 PC client + 1 mobile client	
EK-DEL-TBSK1	Tosibox® SoftKey software key to be combined with a key, with Sub Key function	
EK-DEL-TBMC1	Additional license for Tosibox® Key with 1 mobile client	1 pcs.
EK-DEL-TBMC5	Additional license for Tosibox® Key with 5 mobile clients	
EK-DEL-TBMC10	Additional license for Tosibox® Key with 10 mobile clients	

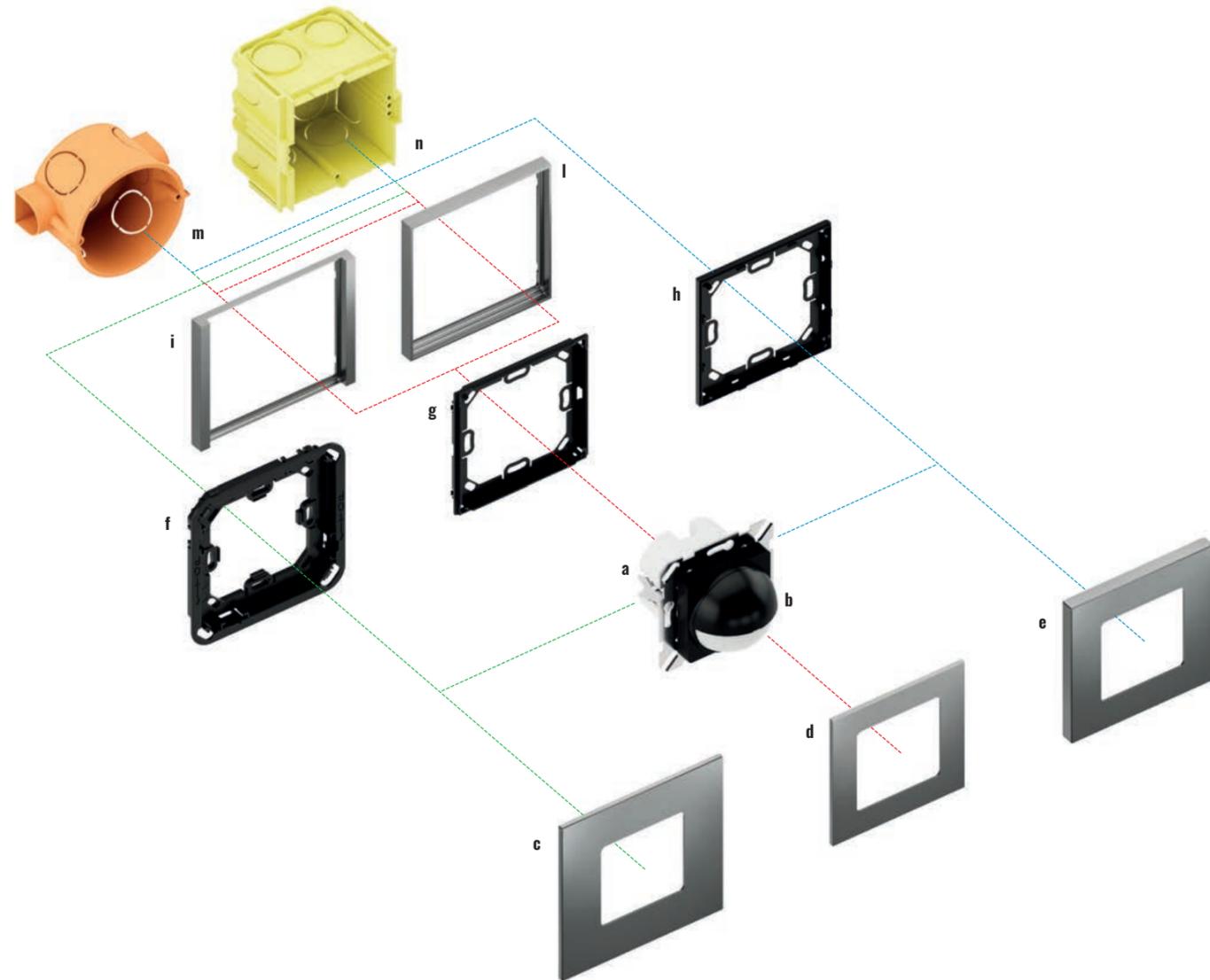


.....  
**SENSORS**  
.....  
WALL-MOUNT DEVICES

Movement sensor	142
Ceiling mounted presence sensor	143
Presence sensor for outdoor mounting	145

## Sensors

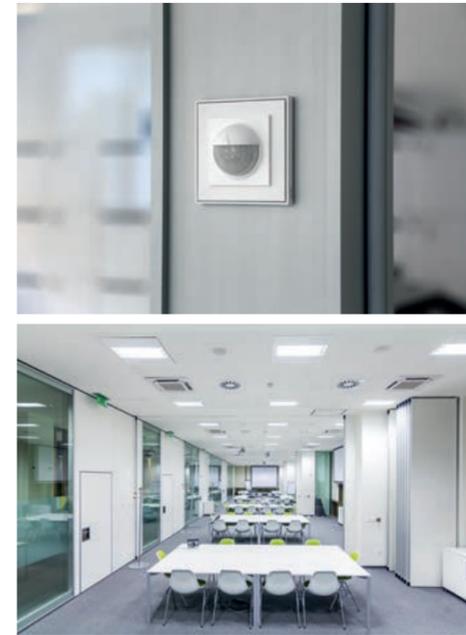
### WALL-MOUNT DEVICES



#### Movement sensor

Description	Code
a) Movement sensor with metallic support	EK-SN2-TP-GA_
b) Cover with lens	
c) Square plate Surface version*	EK-SQN-...
d) Square plate*	EK-PQN-...
e) Square plate Deep version*	EK-DQN-...
f) Adapter for Surface square plate	EK-TAS-Q-1

Description	Code
g) Adapter for square plate	EK-TAQE-1
h) Adapter for 'NF and Deep square plate	EK-TAQE-1-NF
i) Square frame of Flank version	EK-FLQ-...
j) Square frame of Form version	EK-FOQ-...
m) Round flush-mounting box	not delivered by Ekinex®
n) Square flush-mounting box	not delivered by Ekinex®
*) 50 x 50 mm window	



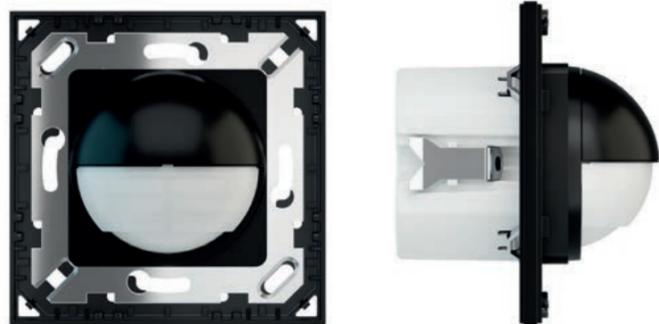
Movement and presence sensors complete with frames Form, Flank or in the 'NF, Deep and Surface versions for aesthetics coordinated to the Ekinex® pushbuttons.

The Ekinex® range of movement and presence sensors allows you to automate the control of bus functions, such as lighting or room climate control. All versions contain a KNX communication module inside. The EK-DF2-TP and EK-DG2-TP versions are suitable for indoor ceiling mounting.

The EK-SN2-TP version is suitable for indoor wall mounting and must be completed with a square plate with 50 x 50 mm window and a square frame Flank or Form version, available in numerous material, colour and finish variants. The sensor can also be installed without a frame by separately ordering a square 'NF, Deep or Surface adapter available with a side profile in a choice of black or white (only 'NF). The EK-DH4-TP version is suitable for wall or ceiling mounting in outdoor areas.

The presence sensors are connected to the signal bus cable; they are SELV (Safety Extra Low Voltage) powered devices that offer a higher level of safety than conventional sensors. Configuration and commissioning of the devices is carried out using ETS® software; the relevant application programme can be downloaded from [www.ekinex.com](http://www.ekinex.com).





## Movement sensor

WALL-MOUNT DEVICES

### Description

The motion sensor Ekinex® EK-SN2-TP is used to detect the passage and standing of persons in a semicircular detection area. It is ideally suited for use in corridors, passage areas, toilets, stairwells, lift landings and generally environments with occasional occupancy. The device has dedicated channels for controlling lighting, HVAC equipment and alarms. Movement/presence detection is carried out by PIR (passive infrared) sensors; a sensor also allows the measurement of ambient brightness. The operating mode is semi-automatic or fully automatic. The device has an integrated KNX bus communication module and is designed for mounting in a flush-mounted wall box; it is powered via the KNX bus and does not require an auxiliary power supply. does not require an auxiliary power supply.

### Main features

- Semi-automatic or fully automatic operation
- Two independent light control channels
- Two independent HVAC control channels
- One alarm channel
- An additional device can be used as a slave for any of the channels
- 200° detection range
- Adjustable sensitivity (4 levels)

### Technical data

- Rated voltage: 21-30 VDC supplied by KNX bus
- Current consumption (on KNX bus): max. 10 mA (operation) / 5 mA (standby)
- Sensing range: 200° semicircular (maskable), up to 9 m distance at 1.5 m mounting height
- Light measurement range: 10..2000 Lux
- Plastic housing, lens and mount
- Safety standards: IEC 61000-6-1 / IEC 61000-6-3 / EN 55014 / EN 50491

### Environmental Conditions

- Operating temperature: - 20... + 45 ° C
- Relative humidity: 95% non-condensing
- Environmental protection: IP20
- Switching, display and detection elements

### Order information

Code	Lens colour	Package
EK-SN2-TP-GAA	white	1 pcs.
EK-SN2-TP-GAE	black	

### The device is equipped with:

- (on the front side) a programming button
- (visible through the lens), a blue programming LED, a red
- red signal LED, a PIR sensor, a brightness sensor and an IR receiver.

### Accessories

- The following accessories are available to be ordered separately:
- square frame Form or Flank version
- square plate with 50 x 50 mm window
- a plastic adapter

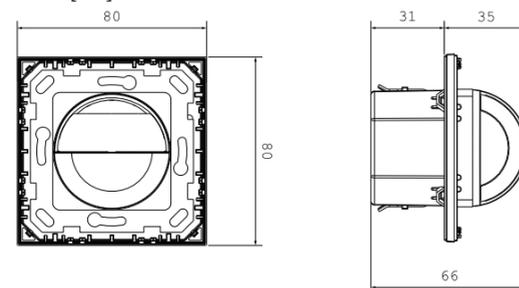


EK-SN2-TP-GAA



EK-SN2-TP-GAE

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKSN2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Ceiling mounted presence sensor

WALL-MOUNT DEVICES

### Description

The Ekinex® presence sensor EK-DF2-TP is a ceiling flush mount Passive Infrared (PIR) motion detector, for the detection of movement and presence of people in indoor spaces with a coverage area of 360°. The detection area can be extended using other sensors configured as slave devices. An integrated light sensor, combined with the motion detector, can manage light switching depending on brightness level as well as presence. The device has two distinct output channels for lighting, with independent parameters; the operation can be automatic or semi automatic. The device is also capable of maintaining a constant brightness level in the room by controlling a dimmable light source. All of the above parameters can be set by the user either through ETS or by means of a dedicated IR remote during installation. The device has two additional HVAC channels, which act in a similar way as the Light Control channels but without the standby time and light level dependence. An additional alarm channel can switch the load on or off depending on the number of trigger events (movements) detected in a time frame of configurable duration

### Main features

- Semi-automatic or fully automatic operation
- Two independent Light control channels
- Two independent HVAC control channels
- One alarm channel
- An additional device can be used as slave for any of the channels
- Detection span of 360°, sectors can be masked through optical shields
- Adjustable Sensitivity, with "Walk test" to verify detection range
- Parameters can be set from ETS or through an IR remote

### Technical data

- Rated voltage: 24 Vdc (21 - 30 Vdc) supplied by KNX bus
- Current consumption (on KNX bus): max 10 mA (operation) / 5 mA (Standby)
- Detection range: 360° circular (maskable), **up to 9 m diameter at 2.5 m mounting height**
- Light measurement range: 10..2000 Lux
- Housing, lens and frame in plastic material
- Safety standards: IEC 61000-6-1 / IEC 61000-6-3 / EN55014 / EN 50491

### Order information

Code	Package
EK-DF2-TP	1 pcs.

### Environmental conditions

- Operating temperature: - 20 ... + 40°C
- Relative humidity: 95% not condensing
- Environmental protection: IP20

### Switching, display and detection elements

The device is equipped with:

- on the rear side, a programming pushbutton
- visible through the plastic lens, a blue programming LED, a red signalling LED, a PIR sensor, a brightness sensor and an IR receiver

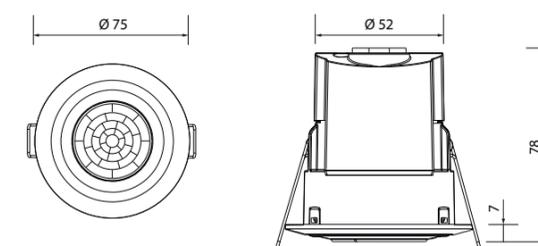
### Accessories

The following accessories are available to be ordered separately:

- IR Remote Controller - EK-QR6-IR and support for protruding mounting - EK-QS3



### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKDF2TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



EK-DF2-TP



EK-QR6-IR



## Ceiling mounted presence sensor

WALL-MOUNT DEVICES

### Description

The Ekinex® presence sensor EK-DG2-TP is a ceiling flush mount Passive Infrared (PIR) motion detector, for the detection of movement and presence of people in indoor spaces with a coverage area of 360°. The detection area can be extended using other sensors configured as slave devices. An integrated light sensor, combined with the motion detector, can manage light switching depending on brightness level as well as presence. The device has two distinct output channels for lighting, with independent parameters; the operation can be automatic or semi automatic. The device is also capable of maintaining a constant brightness level in the room by controlling a dimmable light source. All of the above parameters can be set by the user either through ETS or by means of a dedicated IR remote during installation. The device has two additional HVAC channels, which act in a similar way as the Light Control channels but without the standby time and light level dependence. An additional alarm channel can switch the load on or off depending on the number of trigger events (movements) detected in a time frame of configurable duration.

### Main features

- Semi-automatic or fully automatic operation
- Two independent Light control channels
- Two independent HVAC control channels
- One alarm channel
- An additional device can be used as slave for any of the channels
- Detection span of 360°, sectors can be masked through optical shields
- Adjustable Sensitivity, with "Walk test" to verify detection range
- Parameters can be set from ETS or through an IR remote

### Technical data

- Rated voltage: 24 Vdc (21 - 30 Vdc) supplied by KNX bus
- Current consumption (on KNX bus): max 10 mA (operation) / 5 mA (Standby)
- Detection range: 360° circular (maskable), **up to 12 m diameter at 2.5 m mounting height**
- Light measurement range: 10..2000 Lux
- Housing, lens and frame in plastic material
- Safety standards: IEC 61000-6-1 / IEC 61000-6-3 / EN55014 / EN 50491

### Environmental conditions

- Operating temperature: - 20 ... + 40°C
- Relative humidity: 95% not condensing
- Environmental protection: IP20

### Switching, display and detection elements

The device is equipped with:

- on the rear side, a programming pushbutton
- visible through the plastic lens, a blue programming LED, a red signalling LED, a PIR sensor, a brightness sensor and an IR receiver

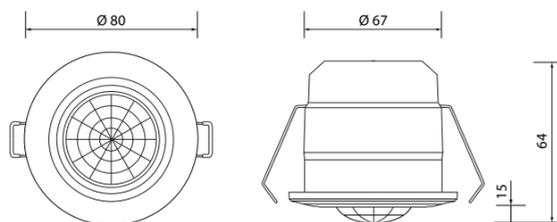
### Accessories

The following accessories are available to be ordered separately:

- IR Remote Controller - EK-QR6-IR and support for protruding mounting - EK-QS3



### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKD62TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



EK-DG2-TP



EK-QR6-IR



## Presence sensor for outdoor mounting

WALL-MOUNT DEVICES

### Description

The Ekinex® EK-DH4-TP presence sensor is an infrared motion detector passive (PIR) for outdoor ceiling or wall mounting, for motion and presence detection of people in outdoor spaces with a 360° coverage area. The detection area can be extended using other sensors configured as slave devices. One integrated light sensor, combined with the motion detector, can manage the ignition of light according to brightness level and presence. The device has two channels of separate output for lighting, with independent parameters; the operation can be automatic or semi-automatic. All the above listed parameters can be set by the user via ETS or via a dedicated IR remote control during installation. The device has two additional HVAC channels, which act similarly to brightness control channels, but without the standby time function and light level dependency. One additional alarm channel can activate or deactivate the load depending on the number of trigger events (movements) detected in a configurable time interval.

### Main features

- Semi-automatic or fully automatic operation
- Two independent light control channels
- Two independent HVAC control channels
- An alarm channel
- An additional device can be used as a slave for any of the channels
- Detection range of 360° (180° on the wall), sectors can be masked through optic screens
- Adjustable sensitivity, with "Walk test" to verify the detection radius
- Parameters can be set by ETS or via an IR remote control.

### Technical data

- Rated voltage: 24 VDC (21-30 VDC) supplied by KNX bus
- Current consumption (on KNX bus): max. 10 mA (operation) / 5 mA (standby)
- Sensing range: 360° circular (masking), **up to 32 m diameter at 2.5 m mounting height**
- Light measuring range: 10..2000 Lux
- Housing, lens and frame in plastic material
- Safety standards: IEC 61000-6-1 / IEC 61000-6-3 / EN 55014 / EN 50491

### Environmental conditions

- Operating temperature: - 20 ... + 40°C
- Relative humidity: 95% not condensing
- Environmental protection: IP20

### Switching, display and detection elements

The device is equipped with:

- on the rear side, a programming pushbutton
- visible through the plastic lens, a blue programming LED, a red signalling LED, a PIR sensor, a brightness sensor and an IR receiver

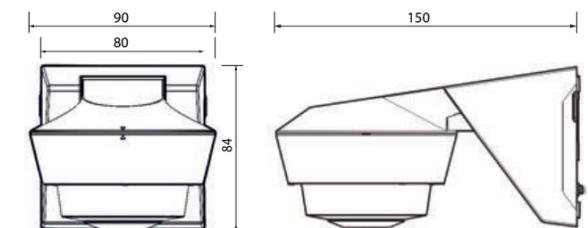
### Accessories

The following accessories are available to be ordered separately:

- IR Remote Controller - EK-QR6-IR



### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKD4TP##.knxprod**  
(## = version, download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



EK-DH4-TP



EK-QR6-IR

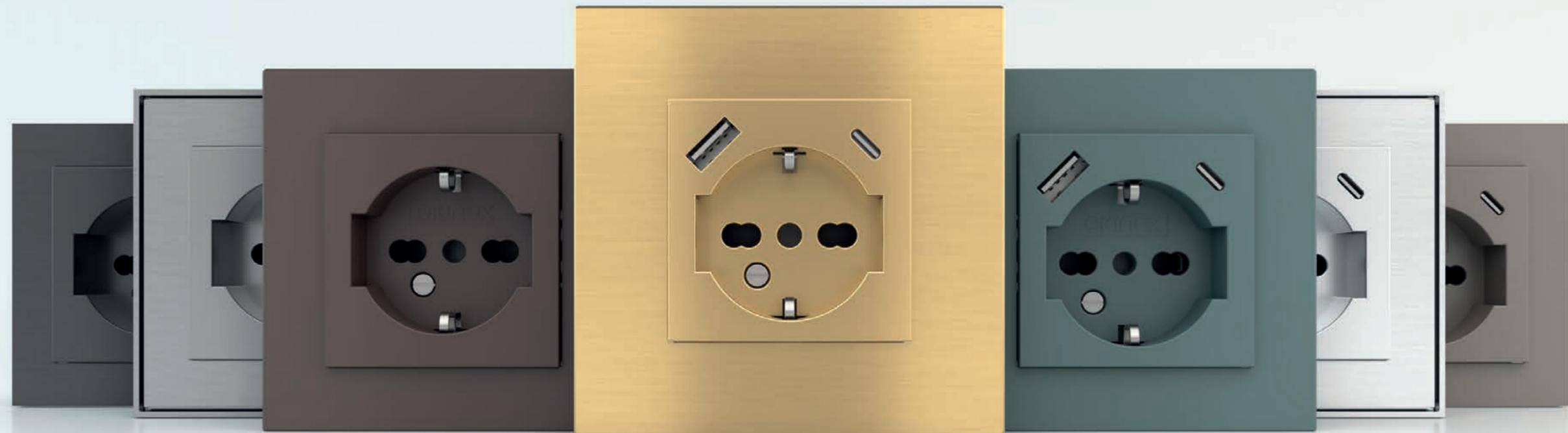


POWER SOCKETS / KEYSTONE SYSTEM

WALL-MOUNT DEVICES

Power socket Italian version (standard and USB A-C)	162
Power socket Schuko version (standard and USB A-C)	163
Keystone System	174





## Power socket Italian Version (standard and USB A-C)

WALL-MOUNT DEVICES



The new Ekinex Italian standard sockets are available in a dual-step version (10-16A) with and without USB, bringing them in line with the latest charging standards with A and C ports and a maximum of 3.5A.

Available colour solutions

	Form	Flank	'NF	Deep	Surface	Italian standard	Italian USB A/C
	Frames		Plates		Front cover*		
Raw plastic	-	-	-	-	-	•	•
Plastic	•	•	•	•	-	•	•
Metal	•	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•	•
Fenix NTM®	-	-	•	•	•	•	•

\* The metal or Fenix NTM® colour effect is achieved by painting  
For more information see page 212

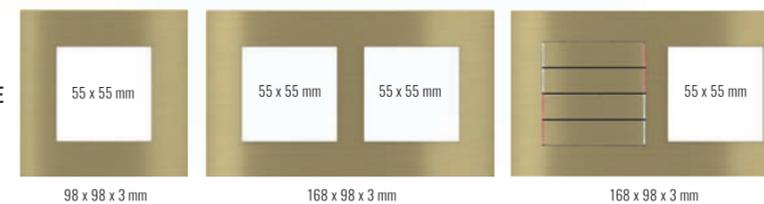
FORM  
FLANK  
'NF



DEEP



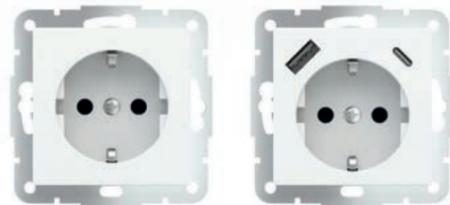
SURFACE





## Power socket Schuko Version (standard and USB A-C)

WALL-MOUNT DEVICES



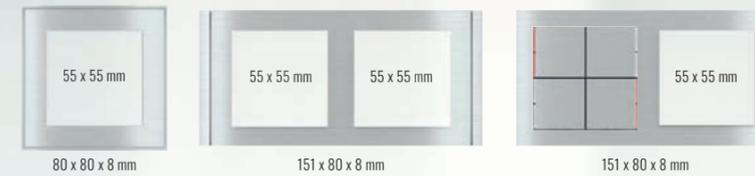
The new Ekinex Schuko standard sockets are available in versions with or without USB, bringing them in line with the latest charging standards with A and C ports and a maximum of 3.5A.

Available colour solutions

	Form	Flank	'NF	Deep	Surface	Schuko standard	Schuko USB A/C
	Frames		Plates		Front cover*		
Raw plastic	-	-	-	-	-	•	•
Plastic	•	•	•	•	-	•	•
Metal	•	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•	•
Fenix NTM®	-	-	•	•	•	•	•

\* The metal or Fenix NTM® colour effect is achieved by painting  
For more information see page 212

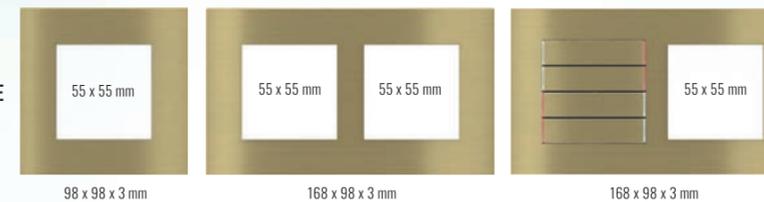
FORM  
FLANK  
'NF



DEEP



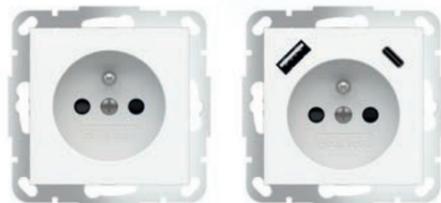
SURFACE





## Power socket French Version (standard and USB A-C)

WALL-MOUNT DEVICES



The new Ekinex French standard sockets (Type E) are available in versions with or without USB, bringing them in line with the latest charging standards with A and C ports and a maximum of 3.5A.

Available colour solutions

	Form	Flank	'NF	Deep	Surface	French standard	French USB A/C
	Frames		Plates		Front cover*		
Raw plastic	-	-	-	-	-	•	•
Plastic	•	•	•	•	-	•	•
Metal	•	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•	•
Fenix NTM®	-	-	•	•	•	•	•

\* The metal or Fenix NTM® colour effect is achieved by painting  
For more information see page 212

FORM  
FLANK  
'NF



80 x 80 x 8 mm



151 x 80 x 8 mm



151 x 80 x 8 mm

DEEP



87 x 87 x 9 mm



158 x 87 x 9 mm



158 x 87 x 9 mm



229 x 87 x 9 mm

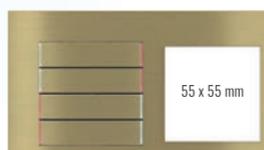
SURFACE



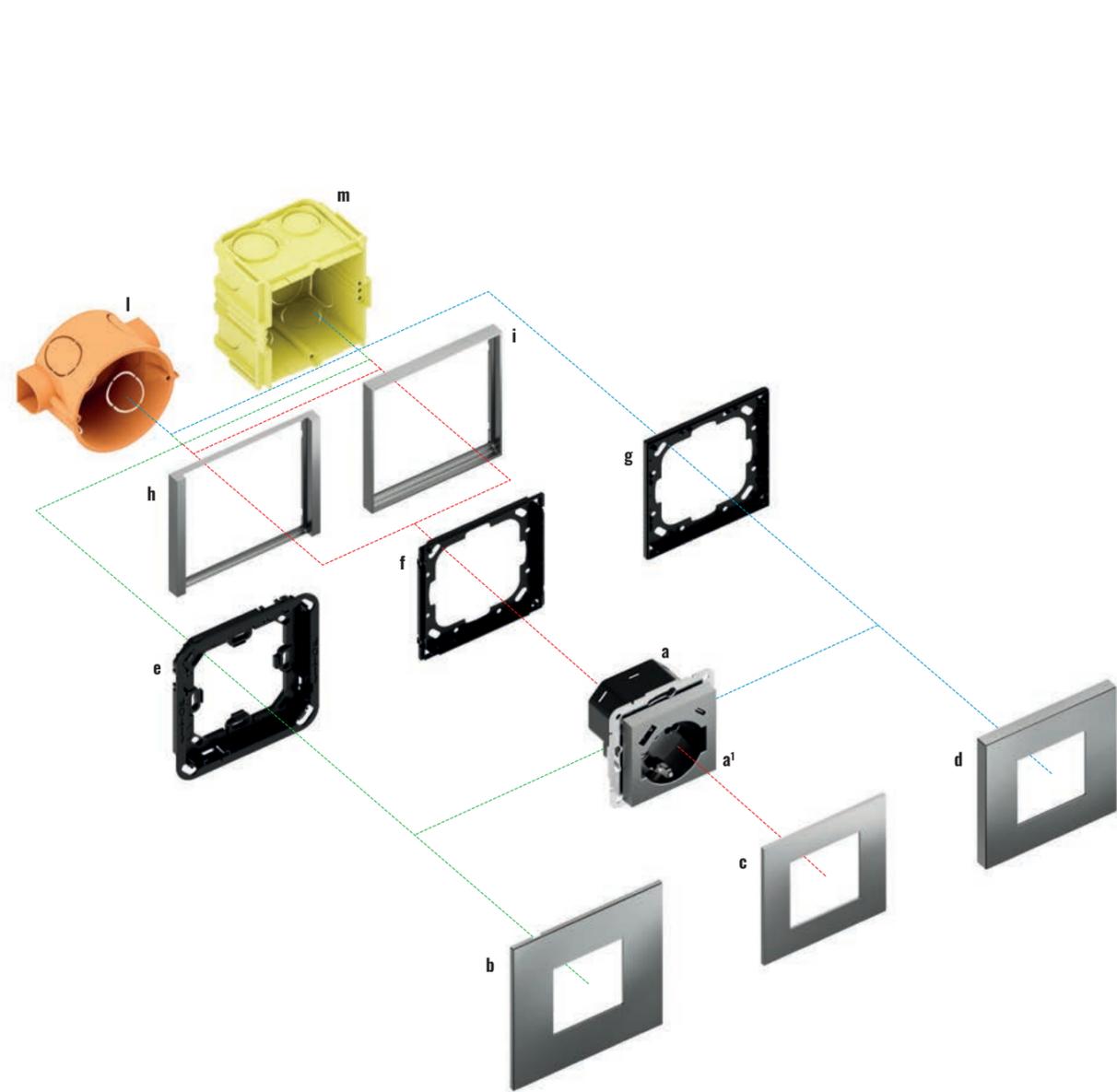
98 x 98 x 3 mm



168 x 98 x 3 mm



168 x 98 x 3 mm

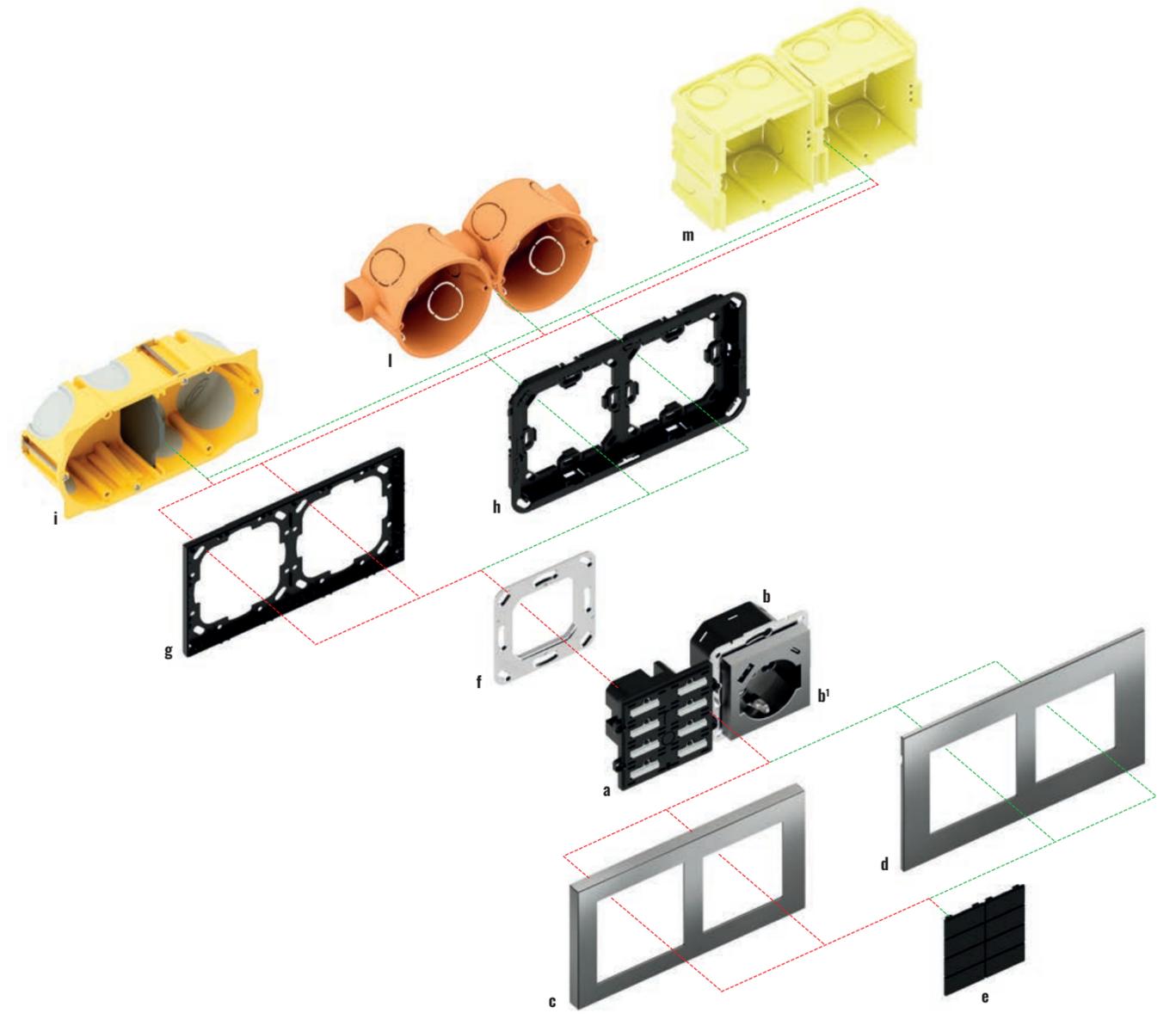


Single installation

Description	Code
a) Power socket (window 55 x 55 mm)	EK-PWS-IT or EK-PWS-IT-USB EK-PWS-DE or EK-PWS-DE-USB EK-PWS-FR or EK-PWS-FR-USB
a1) Front cover	EK-PSC-IT or EK-PSC-IT-USB EK-PSC-DE or EK-PSC-DE-USB EK-PSC-FR or EK-PSC-FR-USB
b) Surface square plate*	EK-SQG-...
c) Square plate*	EK-PQG-...
d) Deep square plate*	EK-DQG-...

Description	Code
e) Adapter for square Surface plate	EK-TAS-Q-1
f) Adapter for square plate Form or Flank frames	EK-TAQE-1
g) Adapter for square plate 'NF and Deep version	EK-TAQE-1-NF
h) Square frame of Flank version	EK-FLQ-...
i) Square frame of Form version	EK-FOQ-...
l) Round built-in box	not delivered by Ekinex®
m) Square built-in box	not delivered by Ekinex®

\*) 55 x 55 mm window

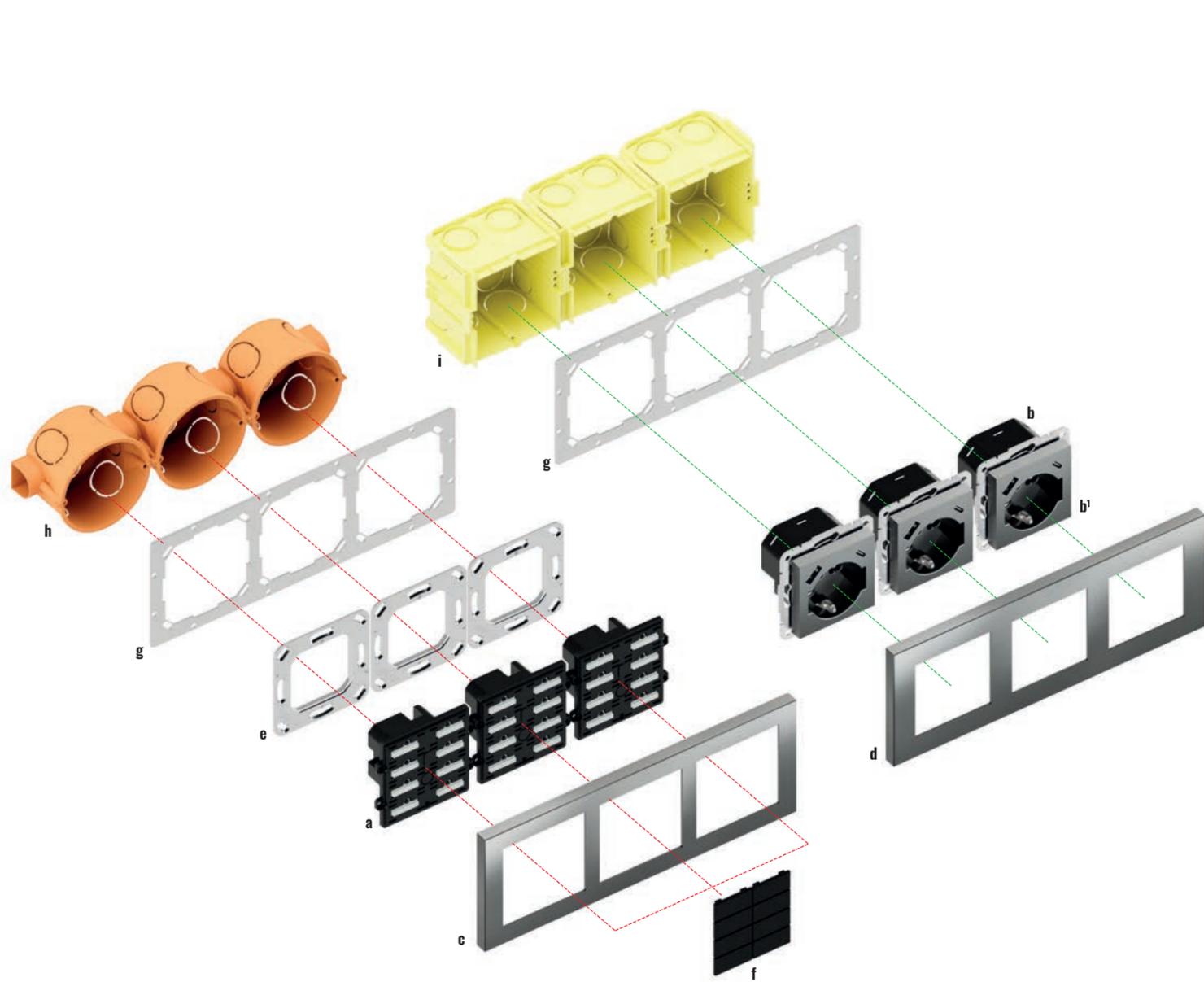


Double installation with centre distance 71 mm (20venti series)

Description	Code
a) Pushbutton 20venti series	EK-E20-TP-...-PN
b) Power socket (window 55 x 55 mm)	EK-PWS-IT or EK-PWS-IT-USB EK-PWS-DE or EK-PWS-DE-USB EK-PWS-FR or EK-PWS-FR-USB
b1) Front cover	EK-PSC-IT or EK-PSC-IT-USB EK-PSC-DE or EK-PSC-DE-USB EK-PSC-FR or EK-PSC-FR-USB
c) Deep double plate*	EK-D2G-...
d) Surface double plate*	EK-S2G-...

Description	Code
e) Horizontal rectangular keys (8)	EK-T4R-20-BT-...
f) Metal mounting support	EK-SMQ-71-1
g) Double adapter for frame-free installation	EK-A71E-1-NF
h) Double adapter for Surface double plate	EK-TAS-D-1
i) Double box for mobile walls	not delivered by Ekinex®
j) Single boxes for masonry walls	not delivered by Ekinex®
m) Single boxes for masonry walls	not delivered by Ekinex®

\*) 60 x 60 mm + 55 x 55 mm window

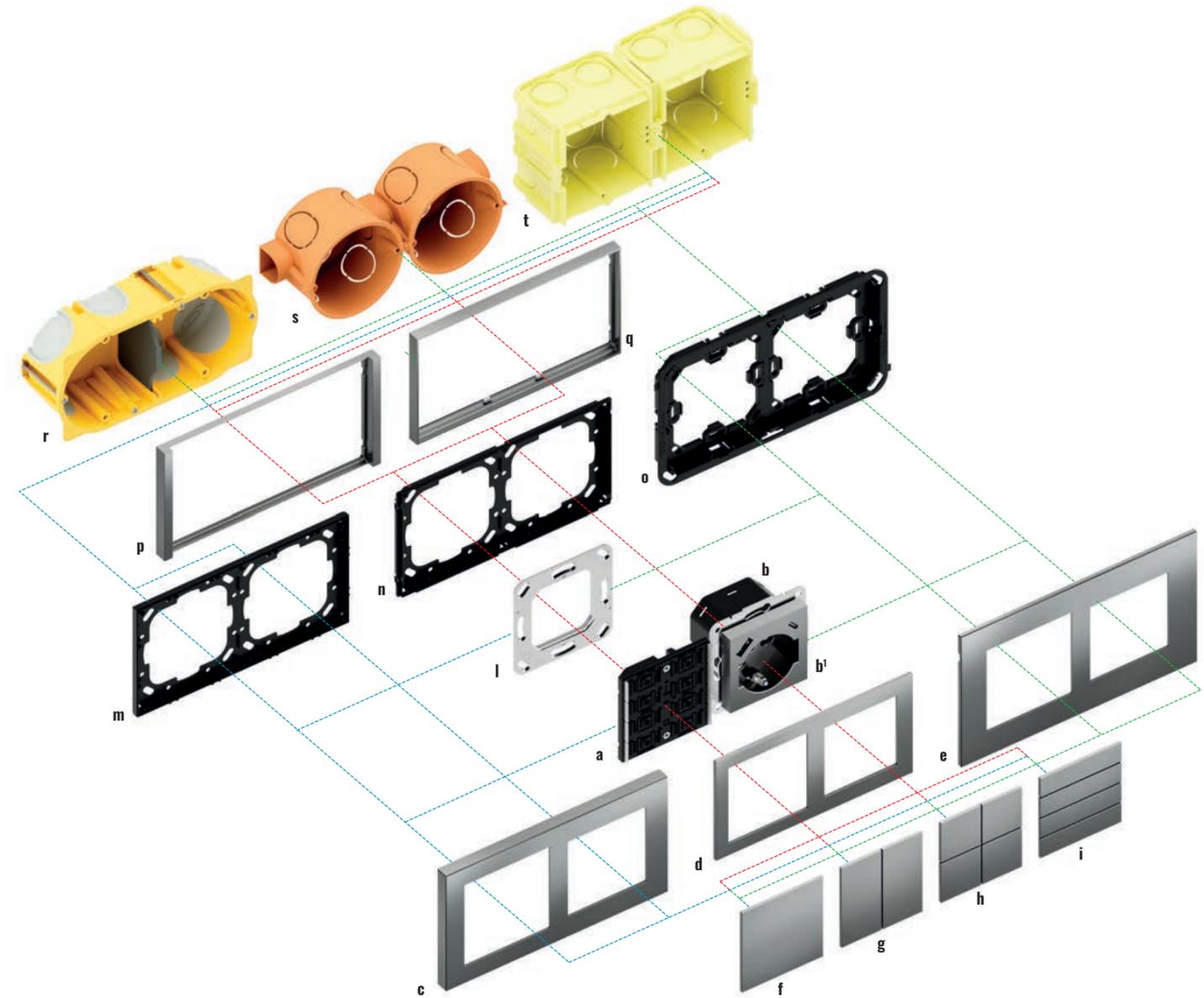


**Triple installation with centre distance 71 mm (20venti series)**

Description	Code
a) Pushbutton 20venti series	EK-E20-TP-...-PN
b) Power socket (window 55 x 55 mm)	EK-PWS-IT or EK-PWS-IT-USB
	EK-PWS-DE or EK-PWS-DE-USB
	EK-PWS-FR or EK-PWS-FR-USB
b1) Front cover	EK-PSC-IT or EK-PSC-IT-USB
	EK-PSC-DE or EK-PSC-DE-USB
	EK-PSC-FR or EK-PSC-FR-USB
c) Deep triple plate*	EK-D3S-...

Description	Code
d) Deep triple plate**	EK-D3P-...
e) Metal mounting support	EK-SMQ-71-1
f) Horizontal rectangular keys (8)	EK-T4R-20-BT...
g) Triple plate adapter - Deep version	EK-B71-1-NF
h) Single boxes for masonry walls	not delivered by Ekinex®

\*) 60 x 60 mm window \*\*) 55 x 55 mm window



**Double installation with centre distance 71 mm (71 series)**

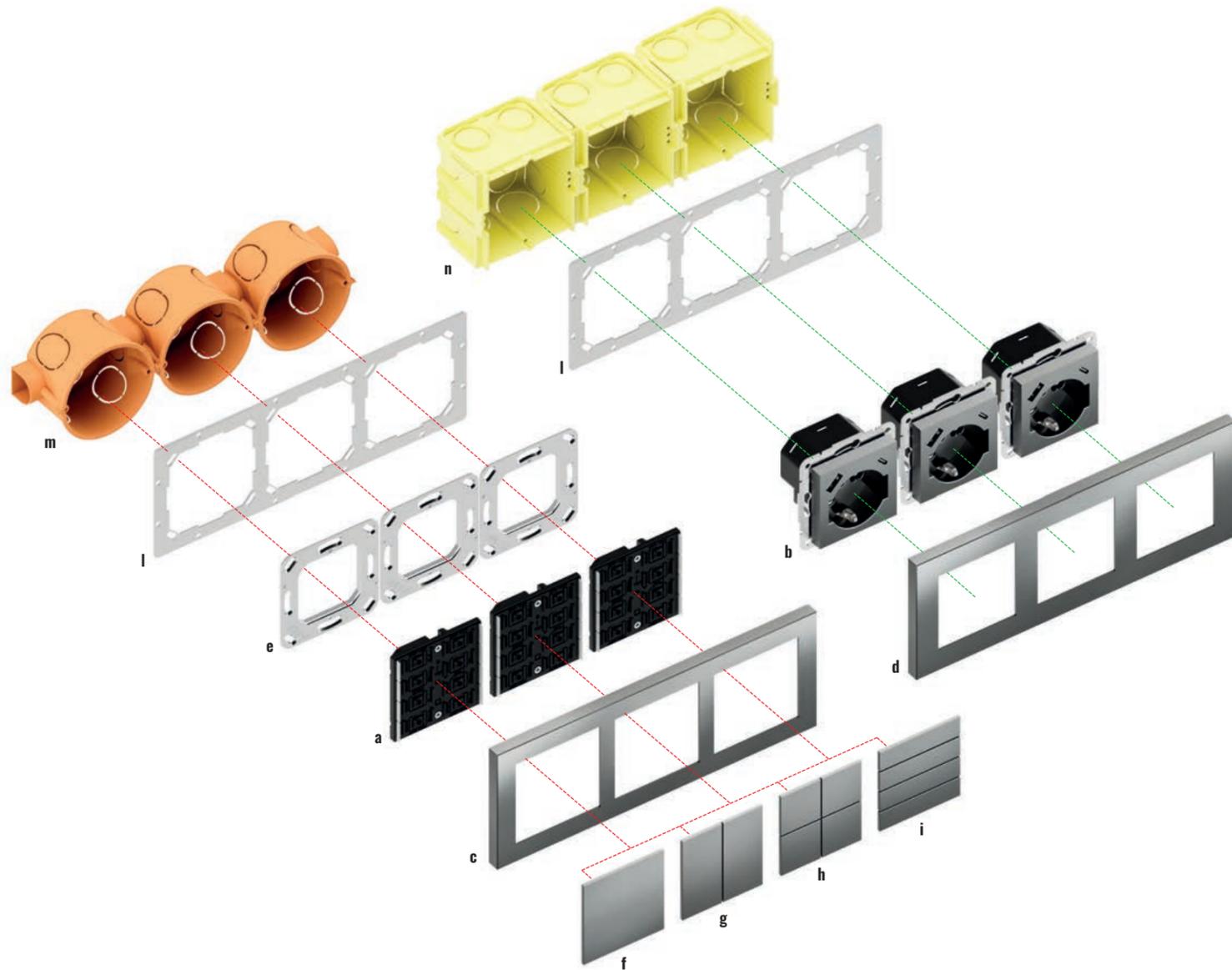
Description	Code
a) Pushbutton 71 series	EK-E13-TP-... o EK-E23-TP-...
	EK-PWS-IT or EK-PWS-IT-USB
	EK-PWS-FR or EK-PWS-FR-USB
b) Power socket (window 55 x 55 mm)	EK-PWS-DE or EK-PWS-DE-USB
	EK-PWS-FR or EK-PWS-FR-USB
	EK-PSC-IT or EK-PSC-IT-USB
b1) Front cover	EK-PSC-DE or EK-PSC-DE-USB
	EK-PSC-FR or EK-PSC-FR-USB
	EK-D2G-...
d) Double plate	EK-P2G-...
e) Surface double plate	EK-S2G-...
f) Square rocker (1)	EK-T1Q-...
g) Rectangular vertical rockers (2)	EK-T2R-...
h) Square rockers (4)	EK-T4Q-...

Description	Code
i) Rectangular horizontal rockers (4)	EK-T4R-...
l) Metal mounting support	EK-SMQ-71-1
m) Double adapter for frame-free installation	EK-A71E-1-NF
n) Adapter for double plate with a Form or Flank frame	EK-A71E
o) Double adapter for Surface double plate	EK-TAS-D-1
p) Flank version double frame	EK-FL2-...
q) Form version double frame	EK-F02-...
r) Double box for mobile walls	not delivered by Ekinex®
s) Single boxes for masonry walls	not delivered by Ekinex®
t) Single boxes for masonry walls	not delivered by Ekinex®

\*) 60 x 60 mm + 55 x 55 mm window

## Electrical and USB power sockets

WALL-MOUNT DEVICES



### Triple installation with centre distance 71 mm (71 series)

Description	Code
<b>a)</b> Pushbutton 71 series	EK-E13-TP-... o EK-E23-TP-...
<b>b)</b> Power socket (window 55 x 55 mm)	EK-PWS-IT or EK-PWS-IT-USB EK-PWS-FR or EK-PWS-FR-USB
<b>b1)</b> Front cover	EK-PSC-IT or EK-PSC-IT-USB EK-PSC-FR or EK-PSC-FR-USB
<b>c)</b> Deep triple plate 71 series	EK-D3S-...
<b>d)</b> Deep triple plate 71 series	EK-D3P-...
<b>e)</b> Metal mounting support	EK-SMQ-71-1

Description	Code
<b>f)</b> Square rocker (1)	EK-T1Q-...
<b>g)</b> Rectangular vertical rockers (2)	EK-T2R-...
<b>h)</b> Square rockers (4)	EK-T4Q-...
<b>i)</b> Rectangular horizontal rockers (4)	EK-T4R-...
<b>j)</b> Triple plate adapter - Deep version*	EK-B71-1-NF
<b>m)</b> Single boxes for masonry walls	not delivered by Ekinex®
<b>n)</b> Single boxes for masonry walls	not delivered by Ekinex®

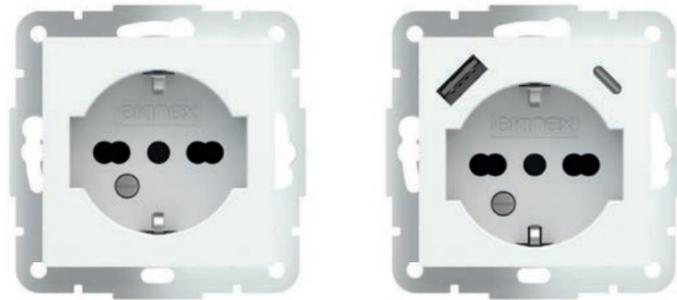
\*) 60 x 60 mm window \*\*) 55 x 55 mm window



Ekinex has paid particular attention to this detail with a special painting process that allows the socket to be colour matched to the other wall elements in its range. The inclusion of a USB output responds to the increasingly pressing need to connect to numerous devices for home or work use.

Essential: this is the most suitable adjective to describe the electrical socket. From the first one invented in America by Hubbel in 1904 to the German-made Schuko dated 1926, the socket has come down to us as the silent player in our electrical systems. Ekinex has given them a new lease of life with a colourful edition that matches keyboards and touch panels. The need to connect to the electricity network has increased in recent years: the list of devices that require a power supply is virtually endless. Ekinex electrical sockets come to your rescue with an extensive range for the Italian and international markets. Ekinex electric sockets are also equipped with USB type A and C ports and can be used to recharge all electronic devices in homes and offices. The many colours are in perfect family feeling with the FF, 71, 20venti and Signum series and can be combined with Fenix NTM®, metal, Metal HT and plastic finishes.





## Power socket and USB A-C Italian version

WALL-MOUNT DEVICES

### Description

The Ekinex model EK-PWS-IT-USB and EK-PWS-IT universal italian standard sockets are 2P+T 16 A universal type devices for wall installation, for 2P 2.5 A europlugs, 2P and 2P + E 10 A and 16 A Italian standard plugs, 2P+T 16 A German standard plugs, for powering household appliances. The EK-PWS-IT-USB model is equipped with a USB power unit, both type-A and type-C, for charging mobile phones and in general all electronic devices that can be recharged via USB sockets of the same type. Charging of two devices at the same time is allowed.

### Main features

- Connection of home devices with AC 250 V ~ voltage
- Contacts protected by shutters
- Mounting on a round or square wall box
- Terminals for cables with section up to 2.5 mm<sup>2</sup>
- USB Type-A and Type-C ports for charging electronic devices such as smartphones, tablets, etc. (only for EK-PWS-IT-USB)

### Technical data

- Max. rated input voltage: AC 250 V ~
- Max rated input current: 16 A
- Network frequency: 50/60 Hz
- USB output voltage (only for EK-PWS-IT-USB): DC 5 V
- USB output current (only for EK-PWS-IT-USB): 3.4 A
- Standby power (only for EK-PWS-IT-USB): ≤ 50mW
- Energy efficiency (only for EK-PWS-IT-USB): 83%
- Operating temperature: -10 ... +40 ° C (indoor use)
- Storage / transport temperature: -20 ... +50 ° C
- Protection degree : IP 20
- Safety class 2 (double insulation)
- Connection type: solid or stranded cable with 1.5 ... 2.5 mm<sup>2</sup> section
- Connection type: screw
- Mounting depth: min. 40 mm
- Plastic housing
- Dimensions: 70 x 70 x 44 mm (LxHxP)

### Delivery

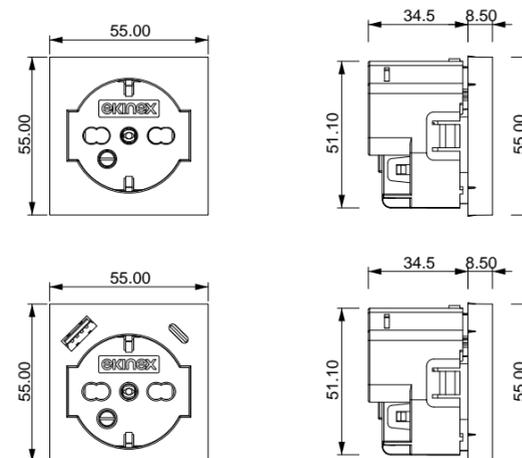
A pair of screws for installation.

### Accessories

The following accessories are available for completion and must be ordered separately:

- square and double frame Form or Flank version
- square, double and triple plate with 55 x 55 mm window
- a plastic adapter

### Dimensions [mm]



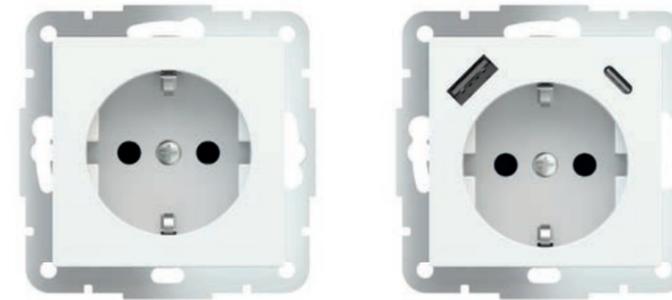
### Order information

Code	Type	Code	Type
EK-PWS-IT	power socket - italian	EK-PWS-IT-USB	power socket - italian USB
EK-PSC-IT	rough white cover	EK-PSC-IT-USB	rough white cover
EK-PSC-IT-...	painting cover	EK-PSC-IT-USB-...	painting cover



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Power socket and USB A-C Schuko version

WALL-MOUNT DEVICES

### Description

The Ekinex model EK-PWS-DE-USB and EK-PWS-DE Schuko® sockets (German standard) are 2P + T 16 A type wall installation devices, for powering household appliances. The EK-PWS-DE-USB model is equipped with a USB power unit, both type-A and type-C, for charging mobile phones and in general all electronic devices that can be recharged via USB sockets of the same type. Charging of two devices at the same time is allowed.

### Main features

- Connection of home devices with AC 250 V ~ voltage
- Contacts protected by shutters
- Mounting on a round or square wall box
- Terminals for cables with section up to 2.5 mm<sup>2</sup>
- USB Type-A and Type-C ports for charging electronic devices such as smartphones, tablets, etc. (only for EK-PWS-DE-USB)

### Technical data

- Max. rated input voltage: AC 250 V ~
- Max rated input current: 16 A
- Network frequency: 50/60 Hz
- USB output voltage (only for EK-PWS-DE-USB): DC 5 V
- USB output current (only for EK-PWS-DE-USB): 3.4 A
- Standby power (only for EK-PWS-DE-USB): ≤ 50mW
- Energy efficiency (only for EK-PWS-DE-USB): 83%
- Operating temperature: -10 ... +40 ° C (indoor use)
- Storage / transport temperature: -20 ... +50 ° C
- Protection degree : IP 20
- Safety class 2 (double insulation)
- Connection type: solid or stranded cable with 1.5 ... 2.5 mm<sup>2</sup> section
- Connection type: screw
- Mounting depth: min. 40 mm
- Plastic housing
- Dimensions: 70 x 70 x 44 mm (LxHxP)

### Delivery

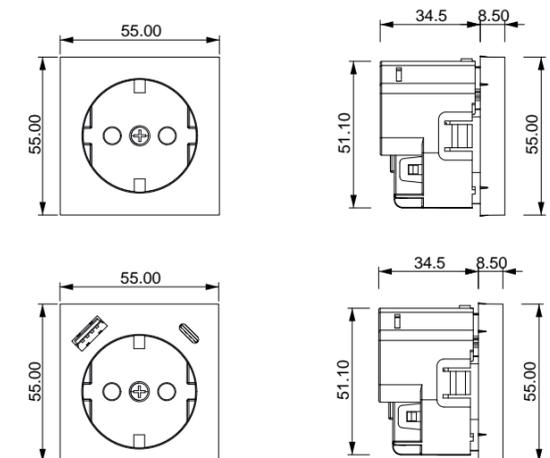
A pair of screws for installation.

### Accessories

The following accessories are available for completion and must be ordered separately:

- square and double frame Form or Flank version
- square, double and triple plate with 55 x 55 mm window
- a plastic adapter

### Dimensions [mm]



### Order information

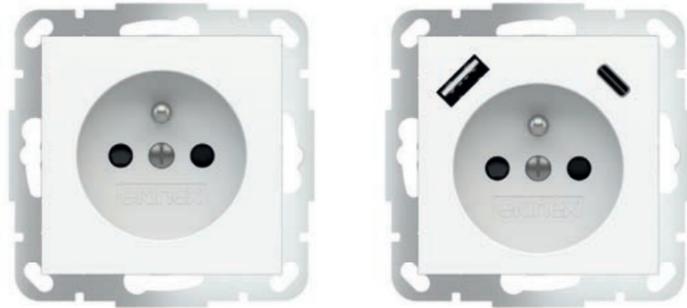
Code	Type	Code	Type
EK-PWS-DE	power socket - Schuko	EK-PWS-DE-USB	power socket - Schuko USB
EK-PSC-DE	rough white cover	EK-PSC-DE-USB	rough white cover
EK-PSC-DE-...	painting cover	EK-PSC-DE-USB-...	painting cover



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Power socket and USB A-C French version

WALL-MOUNT DEVICES

### Description

The Ekinex EK-PWS-FR-USB and EK-PWS-FR French/Belgian standard sockets are E-type wall-mounted devices for supplying power to household appliances up to 16 A 250 V ~. The EK-PWS-FR-USB is equipped with a USB power supply unit, both type-A and type-C, for charging mobile phones and generally all electronic devices that can be charged via USB sockets of the same type. Charging of two devices at the same time is allowed.

### Main features

- Connection of home devices with AC 250 V ~ voltage
- Contacts protected by shutters
- Mounting on a round or square wall box
- Terminals for cables with section up to 2.5 mm<sup>2</sup>
- USB Type-A and Type-C ports for charging electronic devices such as smartphones, tablets, etc. (only for EK-PWS-FR-USB)

### Technical data

- Max. rated input voltage: AC 250 V ~
- Max rated input current: 16 A
- Network frequency: 50/60 Hz
- USB output voltage (only for EK-PWS-FR-USB): DC 5 V
- USB output current (only for EK-PWS-FR-USB): 3.4 A
- Standby power (only for EK-PWS-FR-USB): ≤ 50mW
- Energy efficiency (only for EK-PWS-FR-USB): 83%
- Operating temperature: -10 ... +40 ° C (indoor use)
- Storage / transport temperature: -20 ... +50 ° C
- Protection degree : IP 20
- Safety class 2 (double insulation)
- Connection type: solid or stranded cable with 1.5 ... 2.5 mm<sup>2</sup> section
- Connection type: screw
- Mounting depth: min. 40 mm
- Plastic housing
- Dimensions: 70 x 70 x 44 mm (LxHxP)

### Delivery

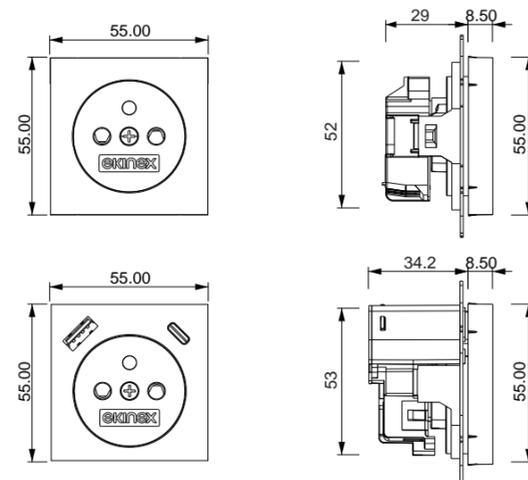
A pair of screws for installation.

### Accessories

The following accessories are available for completion and must be ordered separately:

- square and double frame Form or Flank version
- square, double and triple plate with 55 x 55 mm window
- a plastic adapter

### Dimensions [mm]



### Order information

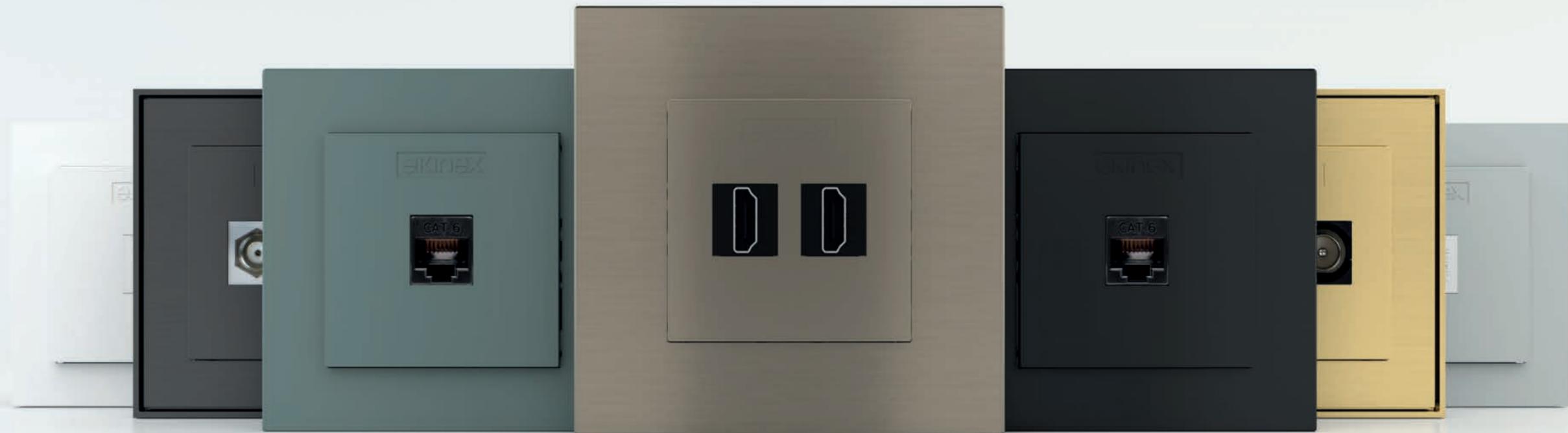
Code	Type	Code	Type
EK-PWS-FR	power socket - french	EK-PWS-FR-USB	power socket - french USB
EK-PSC-FR	rough white cover	EK-PSC-FR-USB	rough white cover
EK-PSC-FR-...	painting cover	EK-PSC-FR-USB-...	painting cover



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Keystone system

WALL-MOUNT DEVICES

The **Keystone system** is a versatile modular connection system that can be used for numerous applications. Ekinex presents various modules such as HDMI cables, RJ45 8/8 sockets, SAT/Antenna, etc. that can solve any connection requirement.

**Available colour solutions**

	Form	Flank	'NF	Deep	Surface	Keystone system
	Frames		Plates		Front cover*	
Raw plastic	-	-	-	-	-	•
Plastic	•	•	•	•	-	•
Metal	•	•	•	•	•	•
Metal HT	-	-	-	•	•	•
Fenix NTM®	-	-	•	•	•	•

\* The metal or Fenix NTM® colour effect is achieved by painting  
For more information see page 212

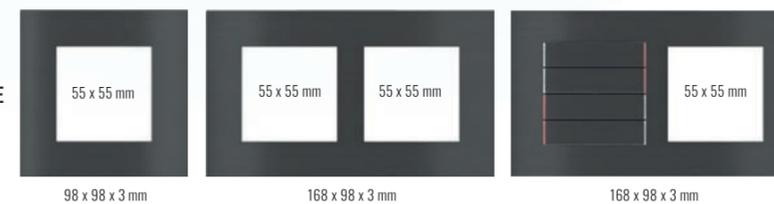
**FORM FLANK 'NF**

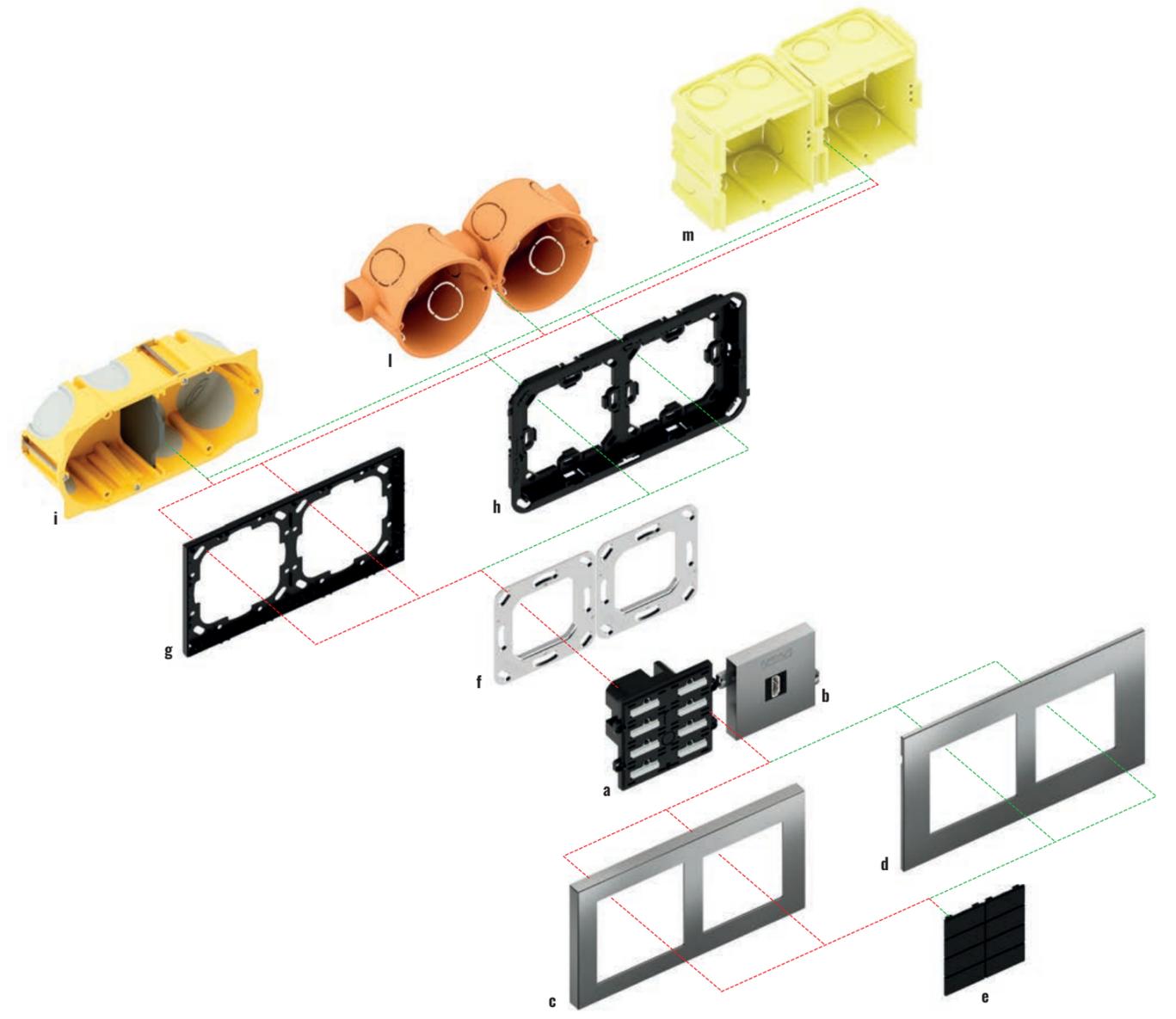
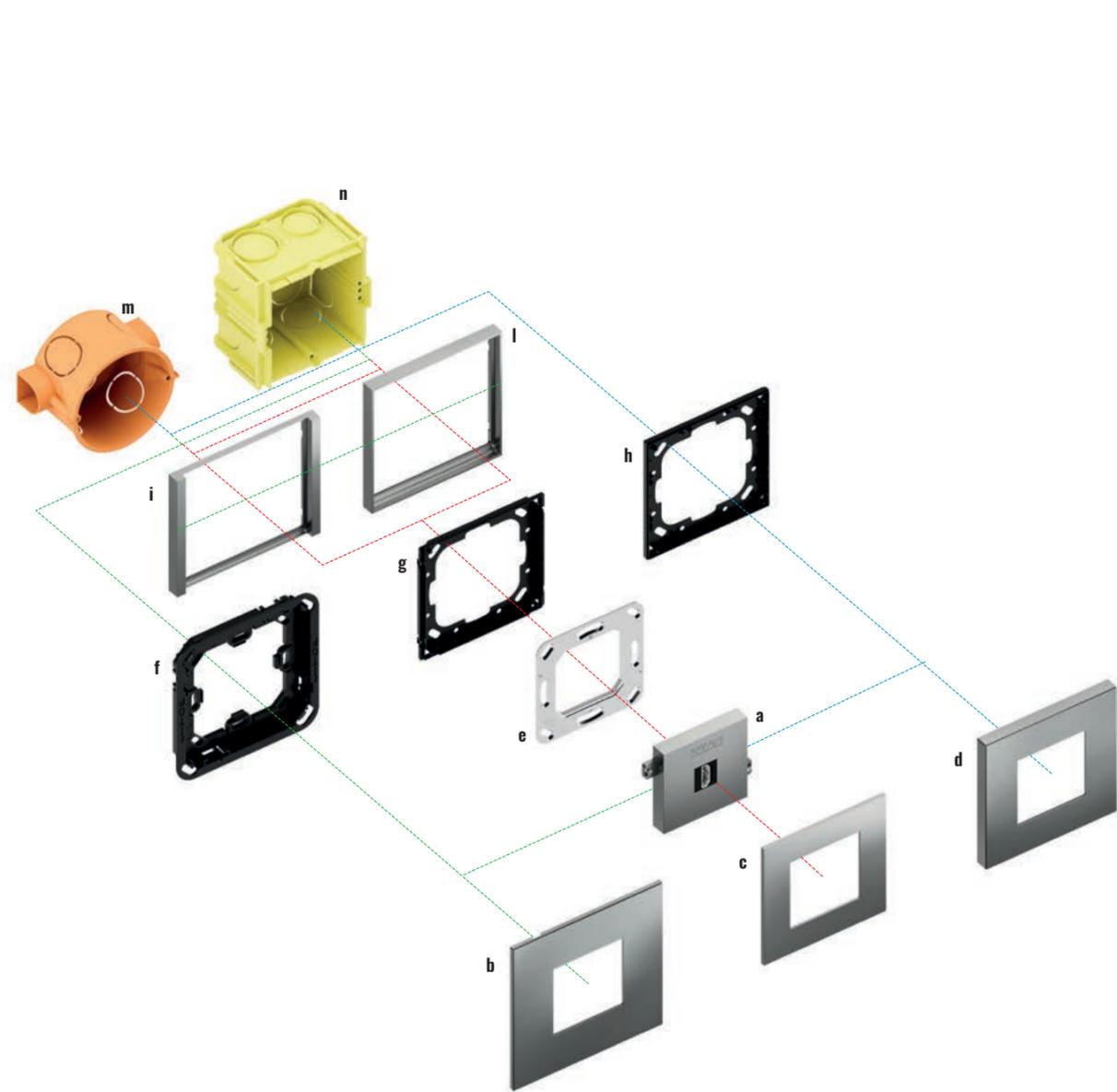


**DEEP**



**SURFACE**





**Single installation**

Description	Code
a) Keystone system (55 x 55 mm module)	EK-KS_...
b) Surface square plate*	EK-SQG-...
c) Square plate*	EK-PQG-...
d) Deep square plate*	EK-DQG-...
e) Metal mounting support	EK-SMQ-71-1
f) Adapter for square Surface plate	EK-TAS-Q-1
g) Adapter for square plate Form or Flank frames	EK-TAQE-1

Description	Code
g) Adapter for square plate 'NF and Deep version	EK-TAQ-NF
h) Square frame of Flank version	EK-FLQ-...
i) Square frame of Form version	EK-FOQ-...
l) Round built-in box	not delivered by Ekinex®
m) Square built-in box	not delivered by Ekinex®

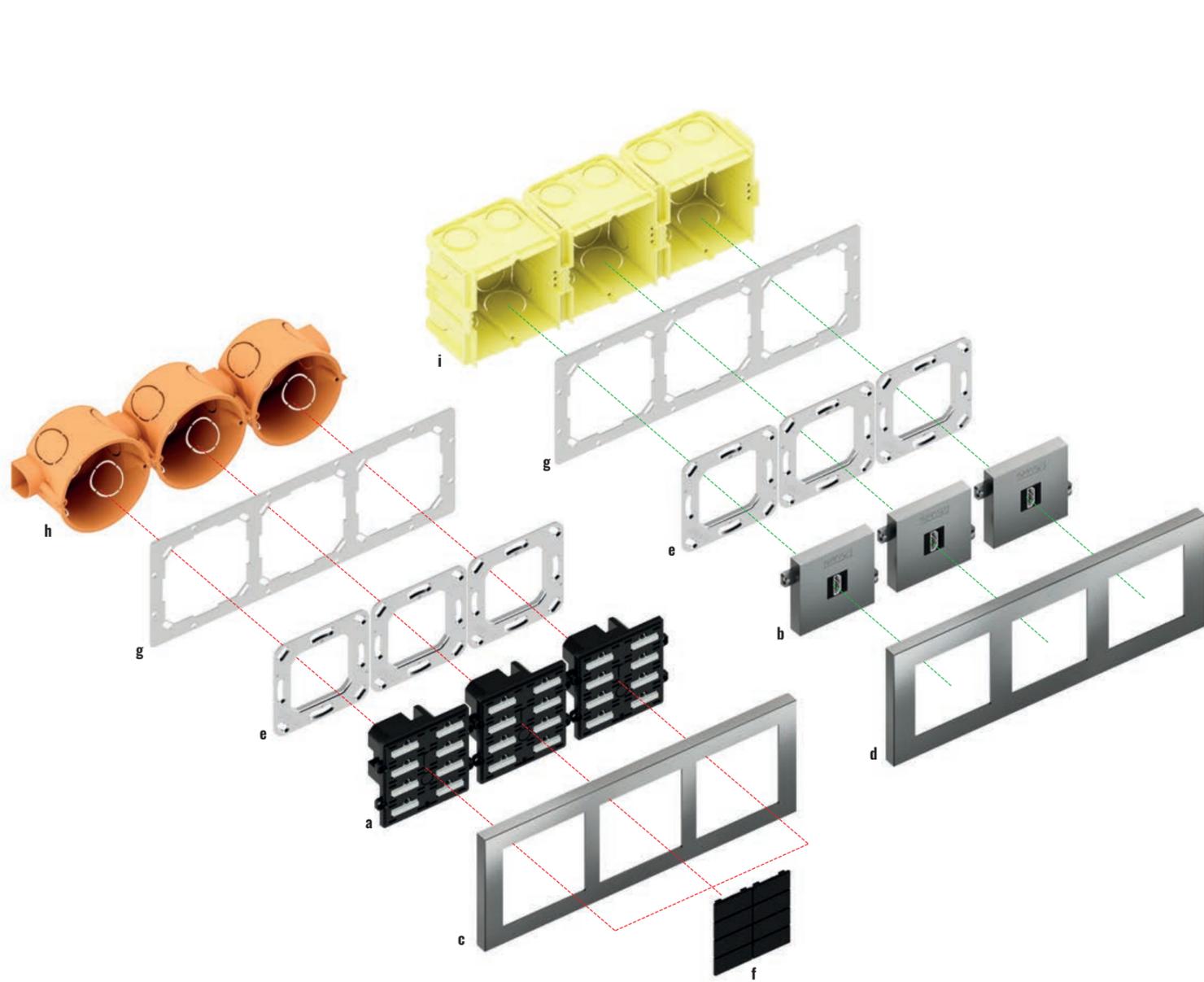
\*) 55 x 55 mm window

**Double installation with centre distance 71 mm (20venti series)**

Description	Code
a) 20venti pushbutton	EK-E20-TP-...-PN
b) Keystone system (55 x 55 mm module)	EK-KS_...
c) Deep double plate*	EK-D2G-...
d) Surface double plate*	EK-S2G-...
e) Horizontal rectangular keys (8)	EK-T4R-20-BT...
f) Metal mounting support	EK-SMQ-71-1

Description	Code
g) Double adapter for frame-free installation	EK-A71E-1-NF
h) Double adapter for Surface double plate	EK-TAS-D-1
i) Double box for mobile walls	not delivered by Ekinex®
l) Single boxes for masonry walls	not delivered by Ekinex®
m) Single boxes for masonry walls	not delivered by Ekinex®

\*) 60 x 60 mm + 55 x 55 mm window

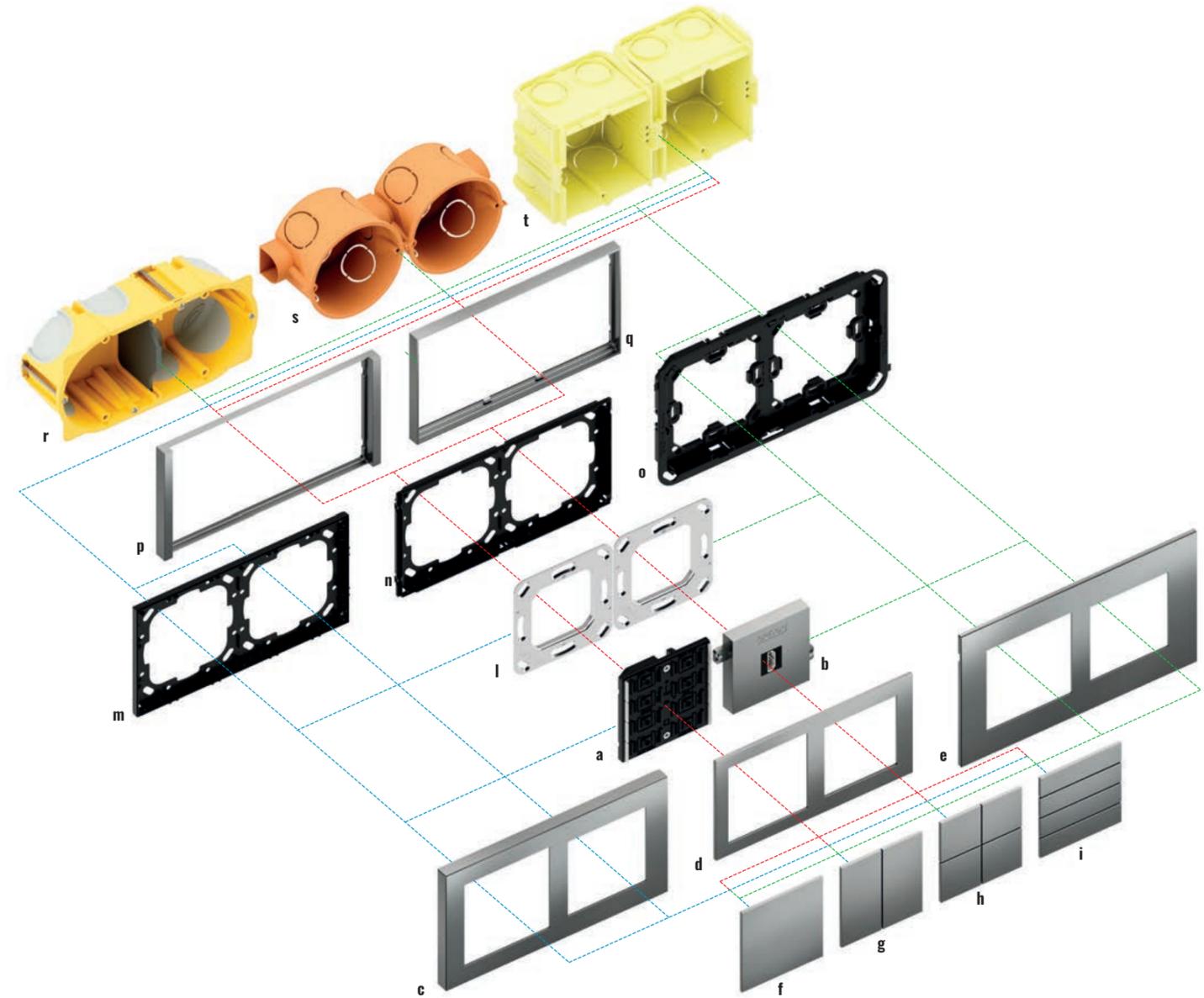


**Triple installation with centre distance 71 mm (20venti series)**

Description	Code
a) Pushbutton 20venti series	EK-E20-TP-...-PN
b) Keystone system (55 x 55 mm module)	EK-KS-...
c) Deep triple plate*	EK-D3S-...
d) Deep triple plate**	EK-D3P-...
e) Metal mounting support	EK-SMQ-71-1
f) Horizontal rectangular keys (8)	EK-T4R-20-BT...

Description	Code
g) Triple plate adapter - Deep version	EK-B71-1-NF
h) Single boxes for masonry walls	not delivered by Ekinex®
i) Single boxes for masonry walls	not delivered by Ekinex®

\*) 60 x 60 mm window \*\*) 55 x 55 mm window



**Double installation with centre distance 71 mm (71 series)**

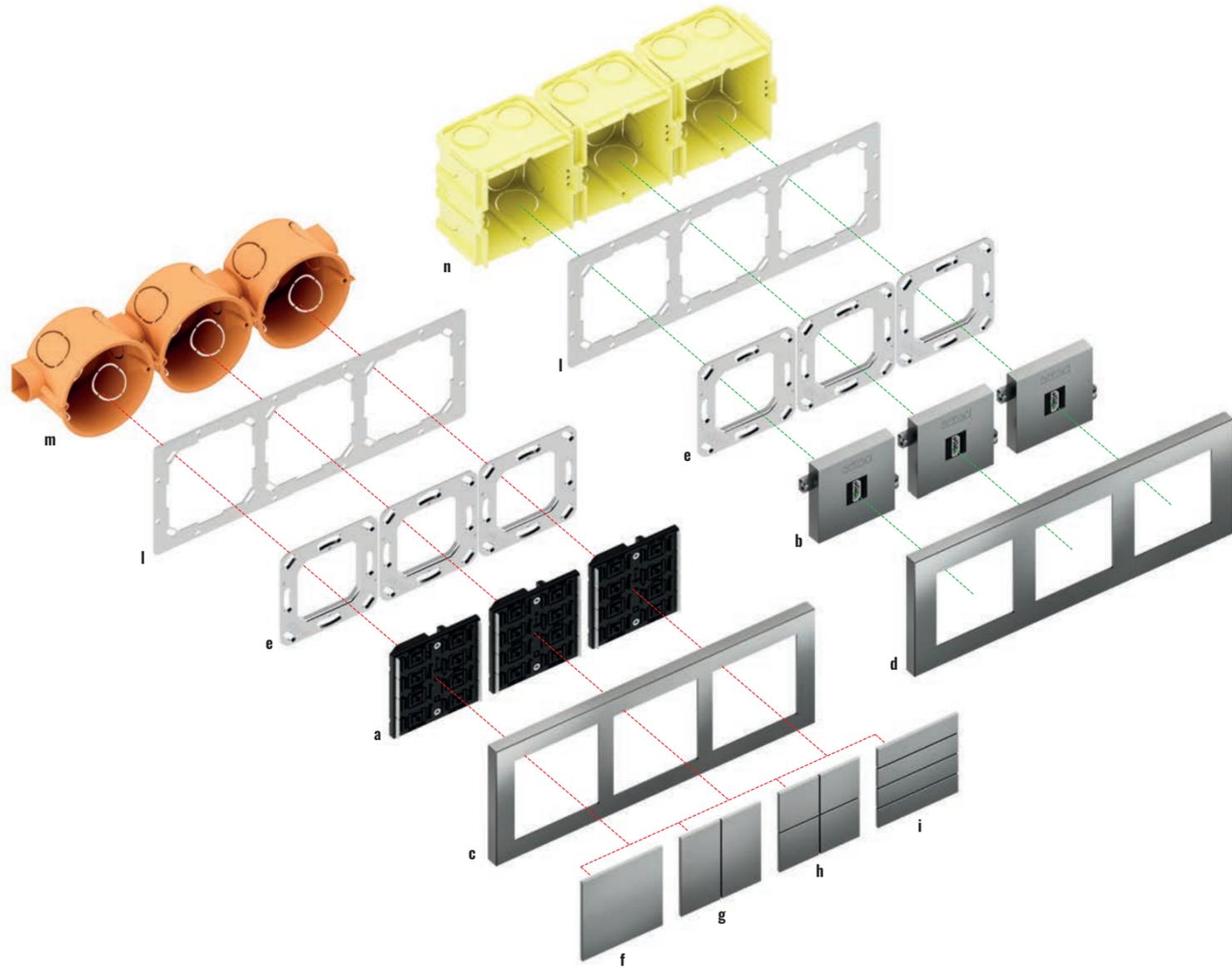
Description	Code
a) Pushbutton 71 series	EK-E13-TP-... o EK-E23-TP-...
b) Keystone system (55 x 55 mm module)	EK-KS-...
c) Deep double plate	EK-D2G-...
d) Double plate	EK-P2G-...
e) Surface double plate	EK-S2G-...
f) Square rocker (1)	EK-T1Q-...
g) Rectangular vertical rockers (2)	EK-T2R-...
h) Square rockers (4)	EK-T4Q-...
i) Rectangular horizontal rockers (4)	EK-T4R-...
l) Metal mounting support	EK-SMQ-71-1

Description	Code
m) Double adapter for frame-free installation	EK-A71E-1-NF
n) Adapter for double plate with a Form or Flank frame	EK-A71E
o) Double adapter for Surface double plate	EK-TAS-D-...
p) Flank version double frame	EK-FL2-...
q) Form version double frame	EK-F02-...
r) Double box for mobile walls	not delivered by Ekinex®
s) Single boxes for masonry walls	not delivered by Ekinex®
t) Single boxes for masonry walls	not delivered by Ekinex®

\*) 60 x 60 mm + 55 x 55 mm window

# Keystone System

WALL-MOUNT DEVICES



Keystone modules compatible with Ekinex civil series. Wide range of devices to integrate network systems, multimedia systems and antenna systems. The front covers can be declined in the various colours available, thanks to a special painting process that allows them to be chromatically matched to the other wall devices.

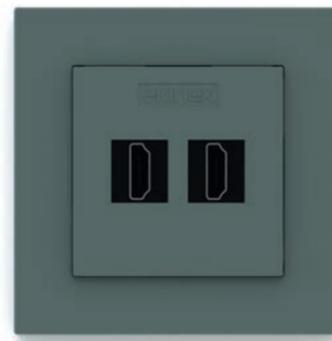
Keystone modules are compatible with Ekinex civil series and offer the possibility of numerous customizations, able to meet the most different needs. A wide range of devices is available to integrate network, multimedia and antenna systems. The standard dimensions allow an easy installation. They are completed with a square, double or triple plate with window dimension 55 x 55 mm, able to accommodate one or more modules. Covers are available in plastic material, in numerous color and finish variations. Plastic caps are available to cover unused spaces.

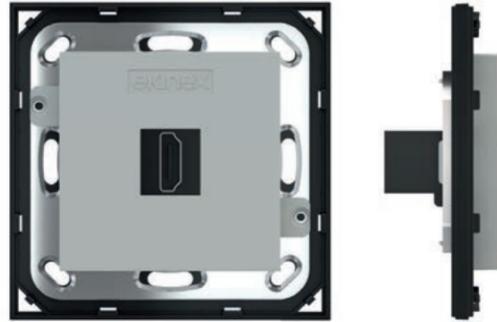
**Triple installation with centre distance 71 mm (71 series)**

Description	Code
a) Pushbutton 71 series	EK-E13-TP-... o EK-E23-TP-...
b) Keystone system (55 x 55 mm module)	EK-KS-...
c) Deep triple plate 71 series	EK-D3S-...
d) Deep triple plate 71 series	EK-D3P-...
e) Metal mounting support	EK-SMQ-71-1
f) Square rocker (1)	EK-T1Q-...
g) Rectangular vertical rockers (2)	EK-T2R-...

Description	Code
h) Square rockers (4)	EK-T4Q-...
i) Rectangular horizontal rockers (4)	EK-T4R-...
j) Triple plate adapter - Deep version*	EK-B71-1-NF
m) Single boxes for masonry walls	not delivered by Ekinex®
n) Single boxes for masonry walls	not delivered by Ekinex®

\*j) 60 x 60 mm window \*\*j) 55 x 55 mm window





## Keystone System

WALL-MOUNT DEVICES

### Description

Keystone modules compatible with Ekinex civil series. Wide range of devices to integrate network systems, multimedia systems and antenna systems.

### Main features

- Usage: indoor
- IP Protection: IP20
- Material: Plastic

### Technical data

- Dimensions (WxDxH): approx. 29.7 x 21.9 x 17.4 mm
- Operating temperature -10° to +60°.
- Packaging temperature -40° to +70° C
- Permissible humidity 10 to 90
- Certificates: CE & RoHS

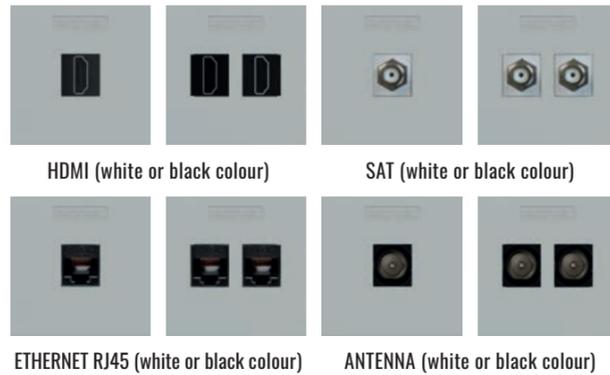
### Delivery

Two pair of screws for installation.

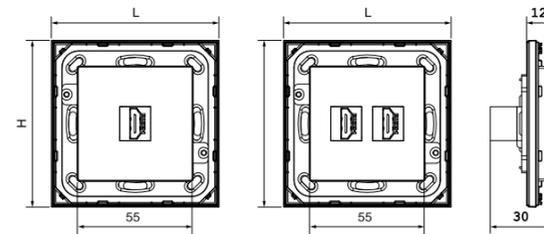
### Accessories

The following accessories are available to complete and to be ordered separately:

- Square and double frame Form or Flank version
- Square, double and triple plate with 55 x 55 mm window
- a plastic adapter
- a metal support for installation onto round or square mounting box (fixing holes 60 mm apart)



### Dimensions [mm]



Mounting with frame: 81 x 77 (L x H)  
Mounting without frame (NF): 80 x 80 (L x H)

### Order information

Code	Type	Color	Code	Type	Color
EK-KSC-1K	1 connector cover	Raw White	EK-KSC-1K-...	1 connector cover	Painted
EK-KSC-2K	2 connectors cover	Raw White	EK-KSC-2K-...	2 connectors cover	Painted
EK-KSM-HDMI-WH	HDMI female/female connector	White	EK-KSM-RJ45-WH	RJ45 connector cat.6 UTP	White
EK-KSM-HDMI-BL	HDMI female/female connector	Black	EK-KSM-RJ45-BL	RJ45 connector cat.6 UTP	Black
EK-KSM-TVF-WH	TV-SAT coaxial socket F female connector	White	EK-KSM-TVM-WH	Coaxial TV socket IEC male connector	White
EK-KSM-TVF-BL	TV-SAT coaxial socket F female connector	Black	EK-KSM-TVM-BL	Coaxial TV socket IEC male connector	Black
EK-KSM-PLUG-WH	Blind plug	White	EK-KSM-PLUG-BL	Blind plug	Black

### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Accessories

WALL-MOUNT DEVICES

Ekinex has developed a series of accessories for the mounting of its KNX wall and panel mounting products such as: frames, rockers and plates, adapter frames, mounting brackets, templates, bus cables and clamps.

### Available colour solutions

	Form	Flank	'NF	Deep	Surface	FF	71	20venti
	Frames		Plates			Rockers		
Plastic	•	•	•	•	-	•	•	•
Metal	•	•	•	•	•	•	•	-
Metal HT	-	-	-	•	•	•	•	-
Fenix NTM®	-	-	•	•	•	•	•	-

For more information see page 212



## Rockers for pushbuttons 20venti series

WALL-MOUNT DEVICES

### Description

Rockers for use as operation surface for pushbuttons of 20venti series. Rockers are available in several colour and material variations and are passive components.

### Versions

- rectangular with 30 x 15 mm modularity

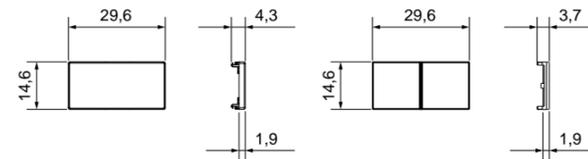
### Main features

- In plastic material
- Snap-on mounting
- Customizable with symbols and text backlit by RGB LED

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters) plus symbols and text (3 characters).

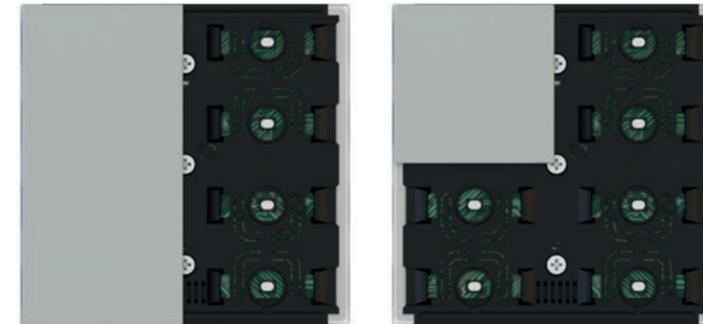
### Dimensions [mm]



### Order information

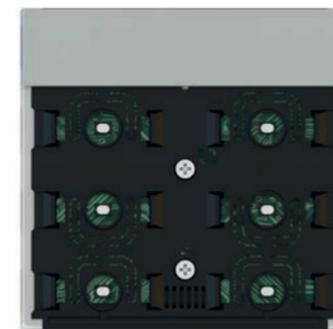
Code	Modularity * L x H [mm]	For use with	Package
EK-T4R-20-BT...	rectangular 30 x 15 symbol/text backlit RGB	pushbutton 20venti series	4 pcs.
EK-T4R-20-BT-MA09	rectangular 30 x 15 status led backlit RGB		
EK-T2B-20-BT...	rectangular 30 x 15 for adjustments RGB		1 pcs.

\*) The modularity indicated also takes into account the distance between the rockers and between rockers and light-guides and, therefore, differs slightly from the actual size of the single rockers



## Rockers for 4-fold pushbuttons FF series

WALL-MOUNT DEVICES



### Description

Rockers for use as operation surface for 4-fold pushbuttons of FF series. They can perform two independent functions by acting on either its upper or lower zones (square and vertical rectangular versions) or on either its left or right zones (horizontal rectangular versions). Rockers are available in several colour and material variations and are passive components.

### Versions

- square with 40 x 40 mm modularity
- horizontal rectangular with 80 x 20 mm modularity
- vertical rectangular with 40 x 80 mm modularity

### Order information

Code	Modularity * L x H [mm]	For use with **	Package
EK-TQQ-...	square 40 x 40	4-fold pushbutton FF series	4 pcs.
EK-TRV-...	vertical rectangular 40 x 80		2 pcs.
EK-TRO-...	horizontal rectangular 80 x 20		4 pcs.

\*) The modularity indicated also takes into account the distance between the rockers and between rockers and light guides and, therefore, differs slightly from the actual size of the single rockers  
 \*\*) The actual functioning as pushbutton with 2 or 4 channels depends on the configuration of the device parameters carried out with ETS



### Main features

- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting
- Customizable with symbols and text

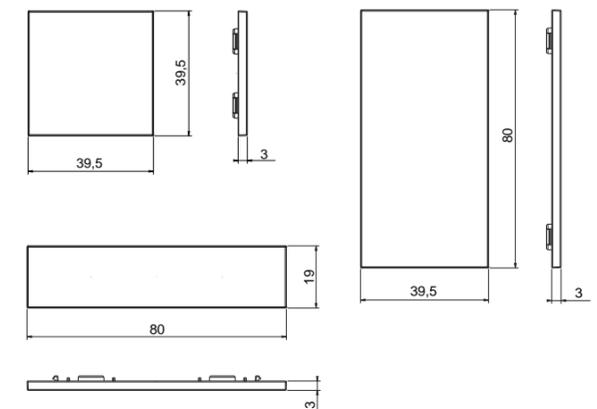
### Delivery

Delivery includes a tool for rockers removal.

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters) plus symbols and text (3 characters).

### Dimensions [mm]





## Rockers for 6-fold pushbuttons and Touch&See FF series

WALL-MOUNT DEVICES

### Description

Rockers for use as operation surface for 6-fold pushbuttons and Touch&See with 2-fold pushbutton of FF series. They can perform two independent functions by pressing on either its upper or lower zones. Rockers are available in several colour and material variations and are passive components.

### Versions

- square with 40 x 40 mm modularity

### Main features

- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting
- Customizable with symbols and text

### Order information

Code	Modularity [mm]	For use with	Package
EK-TQQ-...	square 40 x 40	6-fold pushbutton of FF series Touch&See of FF series	4 pcs.



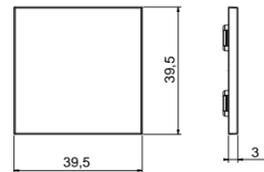
### Delivery

Delivery includes a tool for rockers removal.

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters) plus symbols and text (3 characters).

### Dimensions [mm]



## Set 2 rockers for room thermostats FF series

WALL-MOUNT DEVICES

### Description

Set rockers for use as operation surface for room thermostats of FF series. They can perform two independent functions by acting on either its upper or lower zones. Rockers are available in several colour and material variations and are passive components.

### Versions

- square with 40 x 40 mm modularity

### Main features

- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting
- Customized with symbols for room thermostat functions

### Order information

Code	Modularity [mm]	For use with	Package.
EK-TQQ-...-EP2	square 40 x 40	room thermostats of FF series	2 pcs.



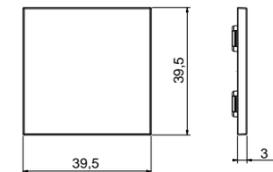
### Delivery

Delivery includes a tool for rockers removal.

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]





## Rockers for 4-fold pushbuttons 71 series

WALL-MOUNT DEVICES

### Description

Rockers for use as operation surface for pushbuttons of 71 series. They can perform two independent functions by acting on either its upper or lower zones (square and vertical rectangular versions) or on either its left or right zones (horizontal rectangular versions). Rockers are available in several colour and material variations and are passive components.

### Versions

- square with 60 x 60 mm or 30 x 30 mm modularity
- rectangular with 30 x 60 mm or 60 x 15 mm modularity

### Main features

- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting
- Customizable with symbols and text

### Order information

Code	Modularity * L x H [mm]	For use with **	Package
EK-T1Q-...	square 60 x 60	pushbuttons of 71 series	1 pcs.
EK-T2R-...	vertical rectangular 30 x 60		2 pcs.
EK-T4Q-...	square 30 x 30		4 pcs.
EK-T4R-...	horizontal rectangular 60 x 15		4 pcs.

\*) The modularity indicated also takes into account the distance between the rockers and between rockers and light-guides and, therefore, differs slightly from the actual size of the single rockers  
 \*\*) The actual functioning as pushbutton with 1, 2 or 4 channels depends on the configuration of the device parameters carried out with ETS



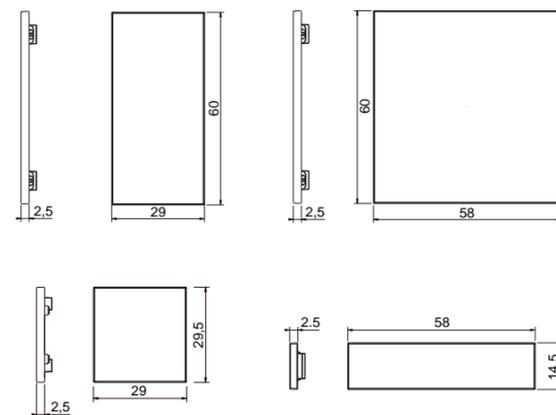
### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters) plus symbols and text (3 characters).

### Note

Finishing off a 71 series pushbutton with a square rocker with 60 x 60 mm modularity does not allow the use of the integrated brightness sensor.

### Dimensions [mm]



## Full front cover for Multisensor

WALL-MOUNT DEVICES

### Description

Front cover for Multisensor available in several colour and material variations.

### Versions

- square with 60 x 60 mm modularity

### Main features

- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting

### Order information

Code	Modularity * L x H [mm]	For use with	Package
EK-T1Q-...-ET2	square 60 x 60	Multisensor EK-ET3-TP	1 pz.
EK-T1Q-...-ES2		Multisensor EK-ES3-TP	

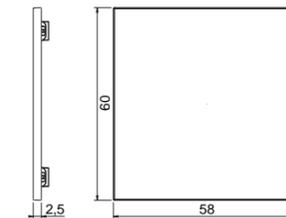
\*) The modularity indicated also takes into account the distance between the front cover and light-guides and, therefore, differs slightly from the actual size of the cover



### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Thermoformed protection for Ekinex pushbuttons

WALL-MOUNT DEVICES



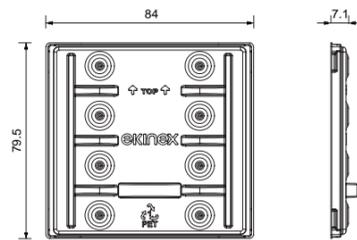
### Description

Building site protection in transparent thermoformed plastic material for Ekinex® pushbuttons FF, 71, 20venti series. The use of the protection prevents soiling of the devices caused by painting. The reliefs in correspondence with each rocker allow the pushbutton to be operated even with the protection present.

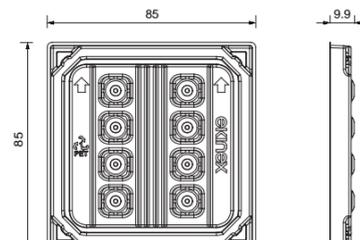
### Order information

Code	For use with	Package
EK-PTC-5-FF	devices of FF series	5 pz.
EK-PTC-5-20-DE	devices of 20venti Deep series	5 pz.
EK-PTC-5-71-DE	devices of 71 Deep series	5 pz.
EK-PTC-5-20-SU	devices of 20venti Surface series	5 pz.
EK-PTC-5-71-SU	devices of 71 Surface series	5 pz.

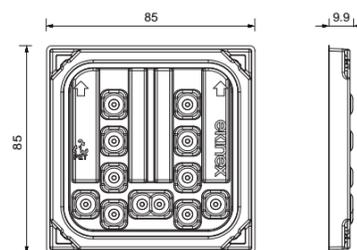
### Dimensions [mm] - FF series



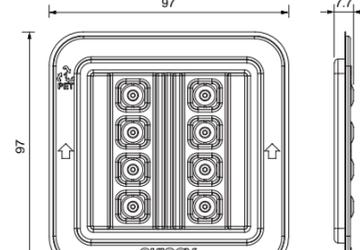
### Dimensions [mm] - 71 Deep series



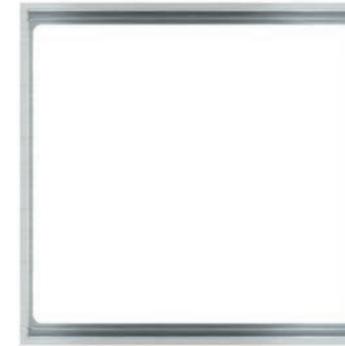
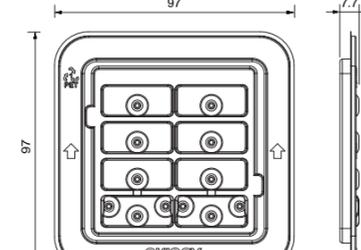
### Dimensions [mm] - 20venti Deep series



### Dimensions [mm] - 71 Surface series



### Dimensions [mm] - 20venti Surface series



### Description

Square frame of Form version for finishing Ekinex® devices of FF and 71 series. Available in several colours and materials.

### Main features

- In plastic material or aluminium
- Snap-on mounting

### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-FOQ-...	86 x 86 x 8	devices of FF and 71 series	1 pcs.

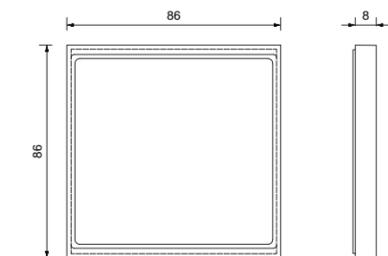
## Square frame Form version

WALL-MOUNT DEVICES

### Order

Base-codes (EK-FOQ) must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



### Description

Rectangular frame of Form version for finishing Ekinex® devices of FF and 71 series. Available in several colours and materials.

### Main features

- In plastic material or aluminium
- Snap-on mounting

### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-FOR-...	126 x 86 x 8	devices of FF and 71 series	1 pcs.

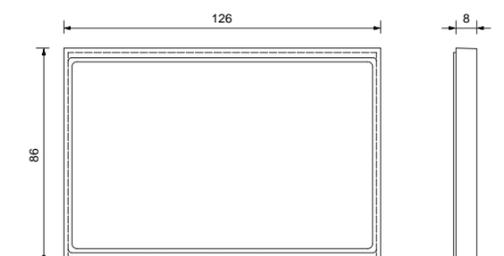
## Rectangular frame Form version

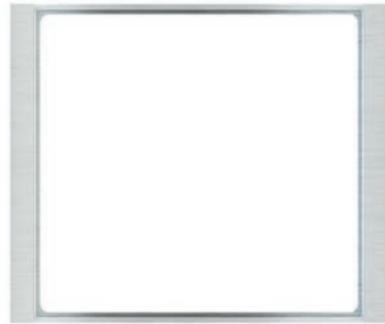
WALL-MOUNT DEVICES

### Order

Base-codes (EK-FOR) must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]





## Square frame Flank version

WALL-MOUNT DEVICES

### Description

Square frame of Flank version for finishing Ekinex® devices of FF and 71 series. Available in several colours and materials.

### Main features

- In plastic material or aluminium
- Snap-on mounting

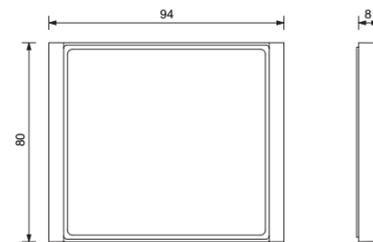
### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-FLQ-...	94 x 80 x 8	Ekinex® devices of FF and 71 series	1 pcs.

### Order

Base-codes (EK-FLQ) must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Double frame Form version

WALL-MOUNT DEVICES

### Description

Double frame of Form version for finishing Ekinex® devices of 71 series. Available in several colours and materials.

### Main features

- In plastic material or aluminium
- Snap-on mounting

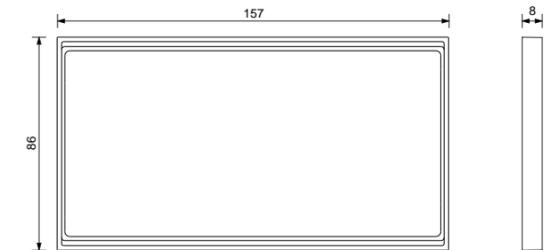
### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-F02-...	157 x 86 x 8	Ekinex® devices of 71 series	1 pcs.

### Order

Base-codes (EK-F02) must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Rectangular frame Flank version

WALL-MOUNT DEVICES

### Description

Rectangular frame of Flank version for finishing Ekinex® devices of FF and 71 series. Available in several colours and materials.

### Main features

- In aluminium
- Snap-on mounting

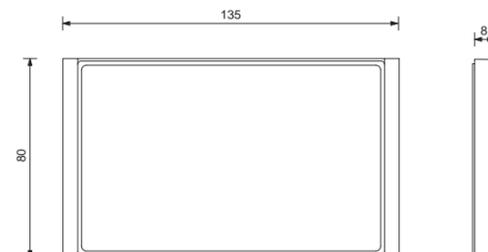
### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-FLR-...	135 x 80 x 8	Ekinex® devices of FF and 71 series	1 pcs.

### Order

Base-codes (EK-FLR) must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Double frame Flank version

WALL-MOUNT DEVICES

### Description

Double frame of Flank version for finishing Ekinex® devices of 71 series. Available in several colours and materials.

### Main features

- In plastic material or aluminium
- Snap-on mounting

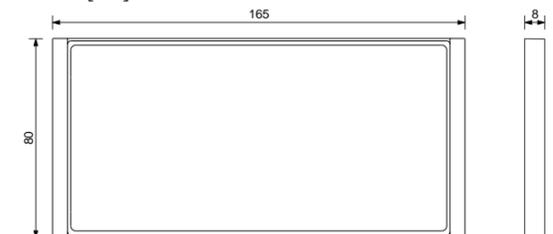
### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-FL2-...	165 x 80 x 8	Ekinex® devices of 71 series	1 pcs.

### Order

Base-codes (EK-FL2) must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]





## Square plate

WALL-MOUNT DEVICES

### Description

Square plate for finishing Ekinex® devices of 71 series or market-standard flush-mounted inserts. Available in several colours and materials. To be used in combination with a square frame of the Form or Flank version. The plate can be also mounted without frame in combination with an adapter of the 'NF' version.

### Main features

- In plastic material or aluminium or Fenix NTM®
- Snap-on mounting

### Order information

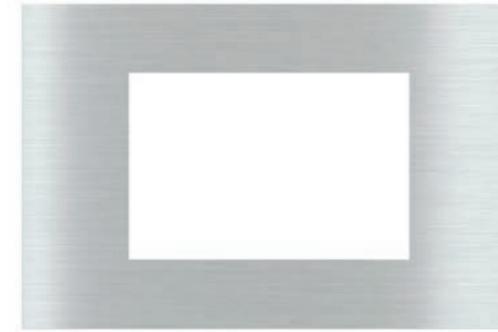
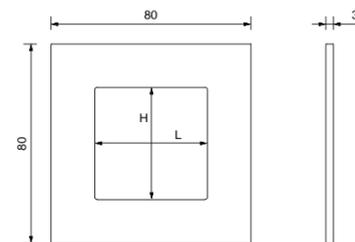
Code	Window L x H [mm]	For use with*	Package
EK-PQP-...	45 x 45	standard flush-mounted inserts or Ekinex® devices	1 pcs.
EK-PQG-...	55 x 55		
EK-PQS-...	60 x 60	Ekinex® devices of 71 series	
EK-PQN-...*	50 x 50	movement sensor	

\*) Not available in plastic

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Rectangular plate

WALL-MOUNT DEVICES

### Description

Rectangular plate for finishing market-standard flush-mounted inserts. Available in several colours and materials. To be used in combination with a rectangular frame of the Form or Flank version. The plate can be also mounted without frame in combination with an adapter of the 'NF' version.

### Main features

- In plastic material or aluminium or Fenix NTM®
- Snap-on mounting

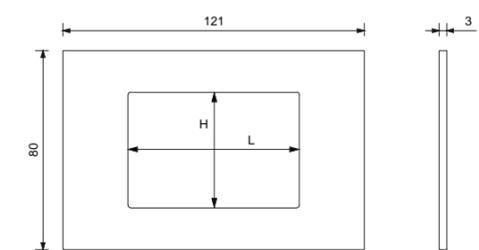
### Order information

Code	Window L x H [mm]	For use with*	Package
EK-PRG-...	68 x 45	standard flush-mounted inserts	1 pcs.
EK-PRS	60 x 60	Ekinex® devices of 71 series	

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Adapter for square plate

WALL-MOUNT DEVICES

### Description

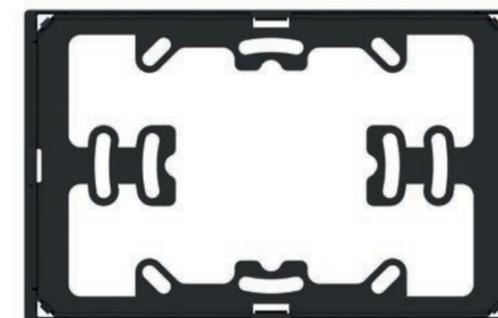
Adapter for snap-on mounting of a square plate.

### Main features

- Plastic material
- Mounting onto round or square mounting box with fixing holes 60 mm apart

### Order information

Code	For use with	Side profile	Package
EK-TAQE-1	square plate with a Form or Flank frame	black	1 pcs.
EK-TAQE-1-NF	square plate without frame ('NF' version)	black	
EK-TAQE-1-NFW		white	
EK-TAQ-1	square plate with a Form or Flank frame (products not supplied by Ekinex)	black	
EK-TAQ-1-NF	square plate without frame ('NF' version) (products not supplied by Ekinex)	black	
EK-TAQ-1-NFW		white	



## Adapter for rectangular plate

WALL-MOUNT DEVICES

### Description

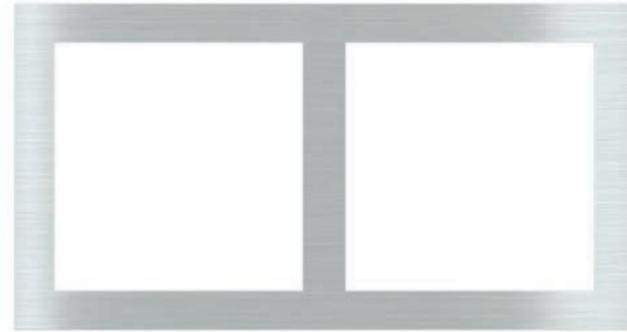
Adapter for snap-on mounting of a rectangular plate.

### Main features

- Plastic material
- Mounting onto round or square mounting box with fixing holes 60 mm apart or onto rectangular mounting box with fixing holes 83,5 mm apart

### Order information

Code	For use with	Side profile	Package
EK-TAR-1	rectangular plate and Form or Flank frame	black	1 pcs.
EK-TAR-1-NF	rectangular plate without frame ('NF' version)	black	
EK-TAR-1-NFW		white	



## Double plate

WALL-MOUNT DEVICES

### Description

Double plate for finishing standard flush-mounting inserts and/or Ekinex® devices of 71 series. Available in several colours and materials. To be used in combination with a double frame of the Form or Flank version. The plate can be also mounted without frame in combination with an adapter of the 'NF' version.

### Main features

- In plastic material or aluminium or Fenix NTM®
- Snap-on mounting

### Order information

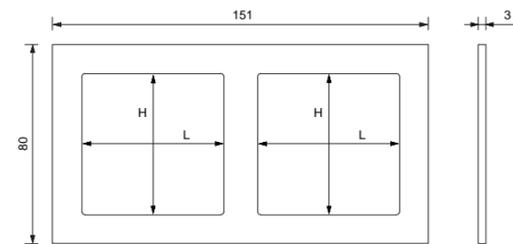
Code	Windows L x H [mm]	For use with*	Package
EK-P2E-...*	45 x 45 (2)	two Ekinex® devices installed 71 mm apart (devices of 71 series and/or flush-mounting inserts)	1 pcs.
EK-P2F-...*	45 x 45 (1), 60 x 60 (1)		
EK-P2P-...	55 x 55 (2)		
EK-P2G-...	55 x 55 (1), 60 x 60 (1)		
EK-P2S-...	60 x 60 (2)		

\*) Not available in plastic

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Deep square plate

WALL-MOUNT DEVICES

### Description

Deep version square plate for finishing Ekinex® devices of Signum, 20venti and 71 series or market-standard flush-mounted inserts. Available in several colours and materials.

### Main features

- For use on round mounting box with fixing holes 60 mm apart
- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter

### Order information

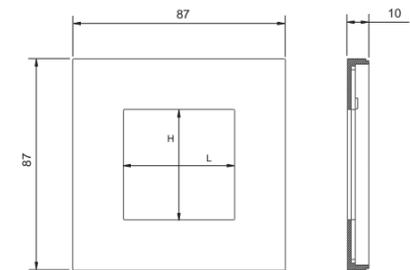
Code	Window L x H [mm]	For use with	Package
EK-DQP-...	45 x 45	standard flush-mounted inserts or Ekinex® devices	1 pcs.
EK-DQG-...	55 x 55		
EK-DQT-...*	30 x 60	Ekinex® devices of 20venti series (4 rockers)	
EK-DQS-...	60 x 60	Ekinex® devices of 20venti and 71 series	
EK-DQV-...*	30 x 60	Ekinex® devices of Signum series	
EK-DQN-...*	50 x 50	movement sensor	

\*) Not available in plastic

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Adapter for double plate

WALL-MOUNT DEVICES

### Description

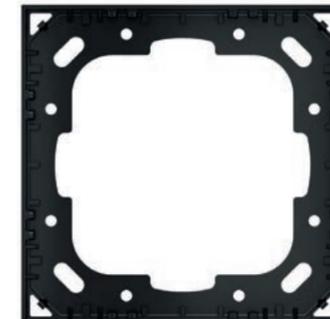
Adapter for snap-on mounting of a double plate.

### Main features

- In plastic material
- For mounting onto round modular flush-mounting boxes (71 mm apart)

### Order information

Code	For use with	Side profile	Package
EK-A71E	double plate with a Form or Flank frame	black	1 pcs.
EK-A71E-1-NF	double plate of 71 series without frame ('NF' version)	black	
EK-A71E-1-NFW		white	
EK-A71	double plate with a Form or Flank frame (at least one product not supplied by Ekinex)	black	
EK-A71-1-NF	double plate of 71 series without frame ('NF' version) (at least one product not supplied by Ekinex)	black	
EK-A71-1-NFW		white	



## Adapter for Deep square plate

WALL-MOUNT DEVICES

### Description

Adapter for snap-on mounting of a Deep square plate.

### Main features

- Plastic material
- Mounting onto round or square mounting box with fixing holes 60 mm apart

### Order information

Code	For use with	Side profile	Package
EK-TAQE-1-NF	Deep square plate	black	1 pcs.



## Deep rectangular plate

WALL-MOUNT DEVICES

### Description

Deep version rectangular plate for finishing Ekinex® devices of 20venti and 71 series or market-standard flush-mounted inserts. Available in several colours and materials.

### Main features

- Mounting onto rectangular 3 seater mounting box according to the Italian installation standard provided with fixing holes 83,5 mm apart
- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter

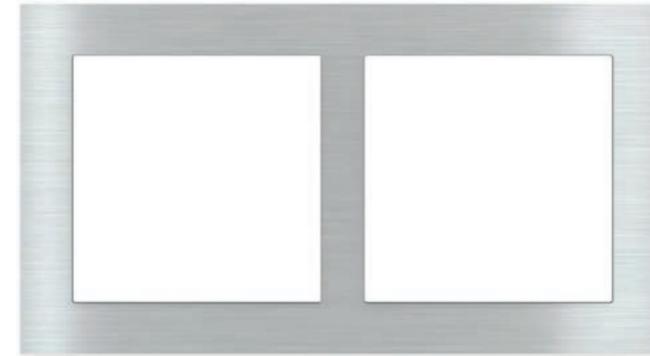
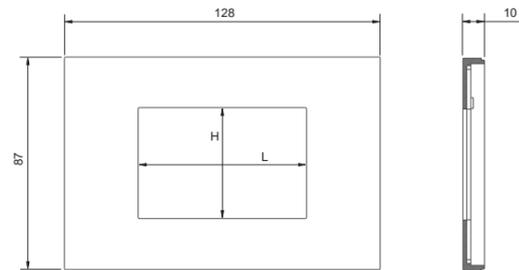
### Order information

Code	Window L x H [mm]	For use with	Package
EK-DRG-...	68 x 45	standard flush-mounted inserts	1 pcs.
EK-DRS-...	60 x 60	Ekinex® devices of 20venti and 71 series	

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Deep double plate

WALL-MOUNT DEVICES

### Description

Deep version double plate for finishing standard flush-mounting inserts and/or Ekinex® devices of 20venti and 71 series. Available in several colours and materials.

### Main features

- For mounting onto mounting boxes with fixing holes 71 mm apart
- In plastic material, aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter

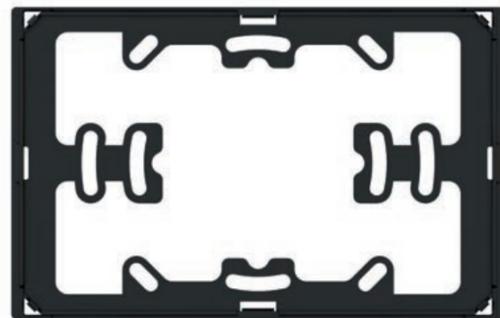
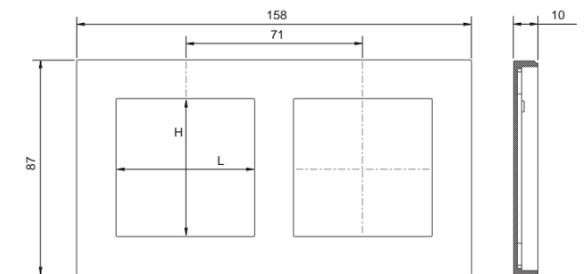
### Order information

Code	Windows L x H [mm]	For use with	Package
EK-D2E	45 x 45 (2)		1 pcs.
EK-D2F	45 x 45 (1), 60 x 60 (1)	two Ekinex® devices installed 71 mm apart (devices of 20venti and 71 series and/or flush-mounting inserts)	
EK-D2P-...	55 x 55 (2)		
EK-D2G-...	55 x 55 (1), 60 x 60 (1)		
EK-D2S-...	60 x 60 (2)		

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Adapter for Deep rectangular plate

WALL-MOUNT DEVICES

### Description

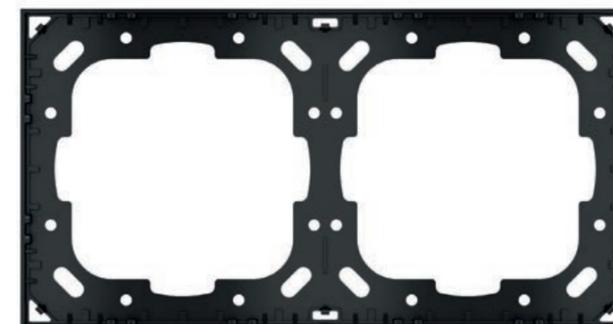
Adapter for snap-on mounting of a Deep rectangular plate.

### Main features

- Plastic material
- Mounting onto round or square mounting box with fixing holes 60 mm apart or onto rectangular mounting box with fixing holes 83,5 mm apart

### Order information

Code	For use with	Side profile	Package
EK-TAR-1-NF	Deep rectangular plate	black	1 pcs.



## Adapter for Deep double plate

WALL-MOUNT DEVICES

### Description

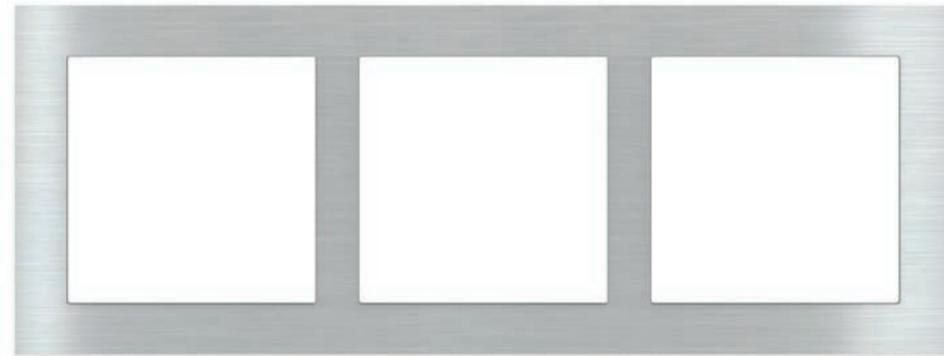
Adapter for snap-on mounting of a Deep double plate.

### Main features

- In plastic material
- For mounting onto round modular flush-mounting boxes (71 mm apart)

### Order information

Code	For use with	Side profile	Package
EK-A71E-1-NF	Deep double plate		1 pcs.
EK-A71-1-NF	double plate of 71 series without frame ('NF version') (at least one product not supplied by Ekinex)	black	



## Deep triple plate

WALL-MOUNT DEVICES

### Description

Deep version triple plate for finishing standard flush-mounting inserts and/or Ekinex® devices of 20venti and 71 series. Available in several colours and materials.

### Main features

- For mounting onto mounting boxes with fixing holes 71 mm apart
- In aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter
- Customisation of windows on aluminium or Fenix NTM® plates on request

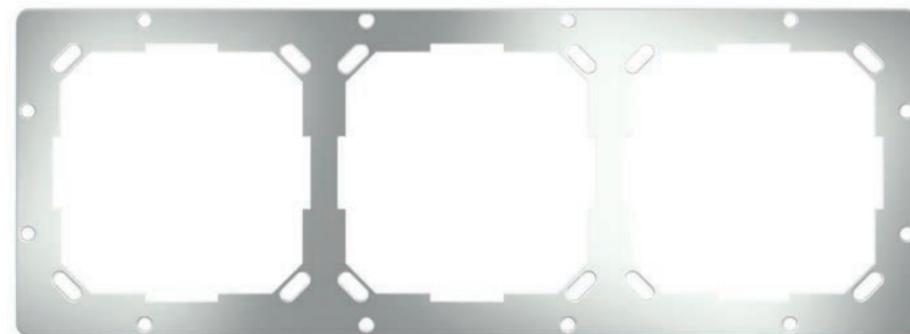
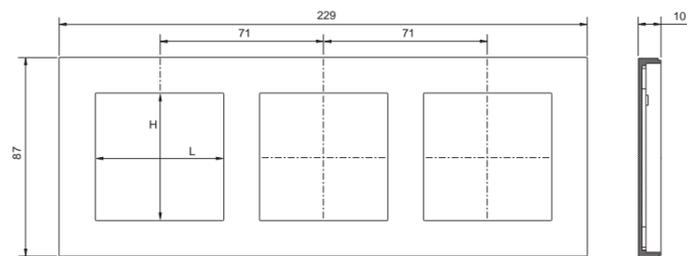
### Order information

Code	Windows L x H [mm]	For use with	Package
EK-D3P-...	55 x 55 (3)	three Ekinex® devices installed 71 mm apart (devices of 20venti and 71 series and/or flush-mounting inserts)	1 pcs.
EK-D3S-...	60 x 60 (3)		

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Adapter for Deep triple plate

WALL-MOUNT DEVICES

### Description

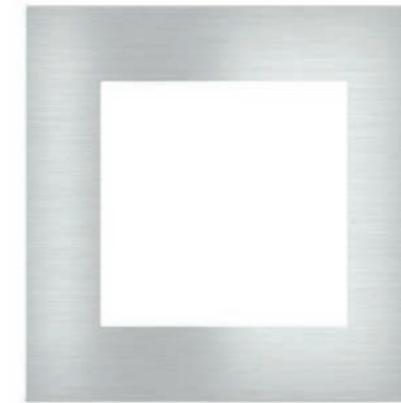
Adapter for snap-on mounting of a Deep triple plate.

### Main features

- In aluminium
- For mounting onto round modular flush-mounting boxes (71 mm apart)

### Order information

Code	For use with	Side profile	Package
EK-B71-1-NF	Deep triple plate	black	1 pcs.



## Surface square plate

WALL-MOUNT DEVICES

### Description

Surface version square plate for finishing Ekinex® devices of 20venti and 71 series or market-standard flush-mounted inserts. Available in several colours and materials.

### Main features

- For use on round mounting box with fixing holes 60 mm apart
- In aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter

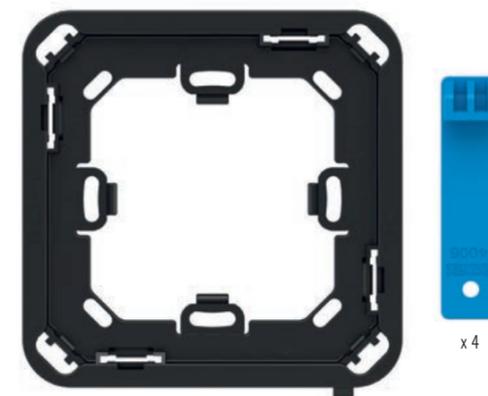
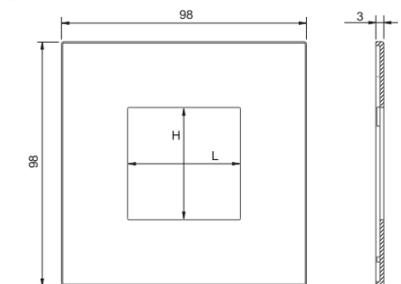
### Order information

Code	Window L x H [mm]	For use with	Package
EK-SQP-...	45 x 45	standard flush-mounted inserts or Ekinex® devices	
EK-SQG-...	55 x 55		
EK-SQT-...	30 x 60	Ekinex® devices of 20venti series (4 rockers)	1 pcs.
EK-SQS-...	60 x 60	Ekinex® devices of 20venti and 71 series	
EK-SQV-...	30 x 60	Ekinex® devices of Signum series	
EK-SQN-...	50 x 50	movement sensor	

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



x 4

## Adapter for Surface square plate

WALL-MOUNT DEVICES

### Description

Adapter for mounting of a Surface square plate.

### Main features

- Plastic material
- With fixing ties for movable walls
- Mounting onto round or square mounting box with fixing holes 60 mm apart
- Installation NOT guaranteed on movable walls greater than 30 mm

### Order information

Code	For use with	Side profile	Package
EK-TAS-Q-1	Surface square plate	black	1 pcs.



## Surface rectangular plate

WALL-MOUNT DEVICES

### Description

Surface version rectangular plate for finishing Ekinex® devices of 20venti and 71 series or market-standard flush-mounted inserts. Mounting on 3 seater rectangular boxes. Available in several colours and materials.

### Main features

- Mounting onto rectangular 3 seater mounting box according to the Italian installation standard provided with fixing holes 83,5 mm apart
- In aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter

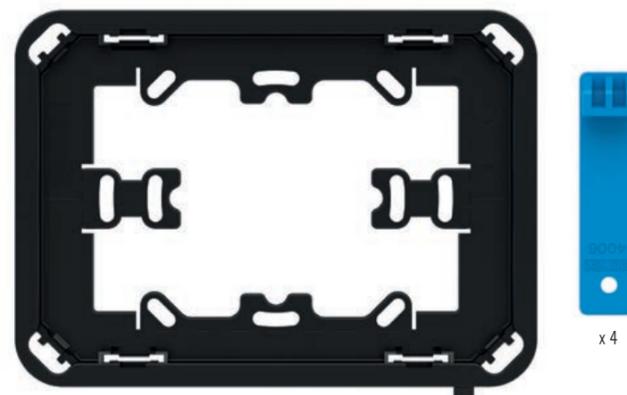
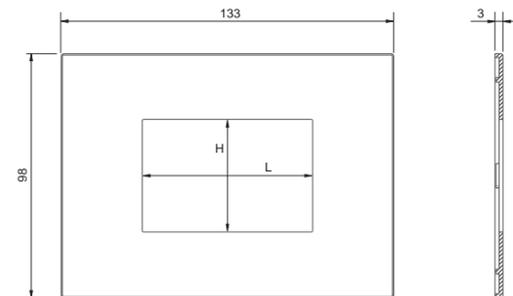
### Order information

Code	Window L x H [mm]	For use with	Package
EK-SRG-...	68 x 45	standard flush-mounted inserts	1 pcs.
EK-SRS	60 x 60	devices of 20venti and 71 series	

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Adapter for Surface rectangular plate

WALL-MOUNT DEVICES

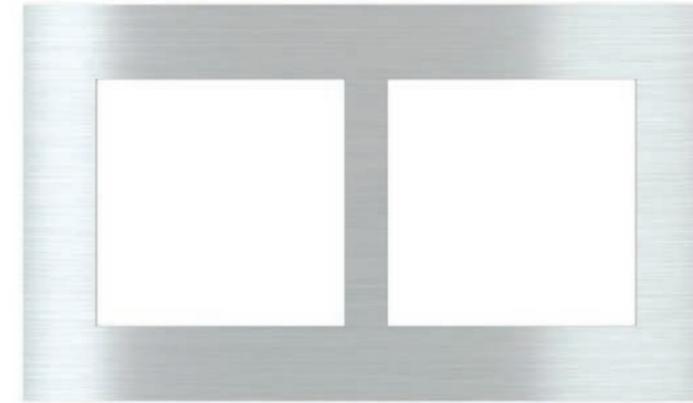
### Accessories (included in the delivery)

Adapter for mounting of a Surface rectangular plate.

- Plastic material
- With fixing ties for movable walls
- Mounting onto rectangular 3 seater mounting box according to the Italian installation standard provided with fixing holes 83,5 mm apart
- Installation NOT guaranteed on movable walls greater than 30 mm

### Order information

Code	For use with	Side profile	Package
EK-TAS-R-1	Surface rectangular plate	black	1 pcs.



## Surface double plate

WALL-MOUNT DEVICES

### Description

Surface version double plate for finishing standard flush-mounting inserts and/or Ekinex® devices of 20venti and 71 series. Available in several colours and materials.

### Main features

- For mounting onto mounting boxes with fixing holes 71 mm apart
- In aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter

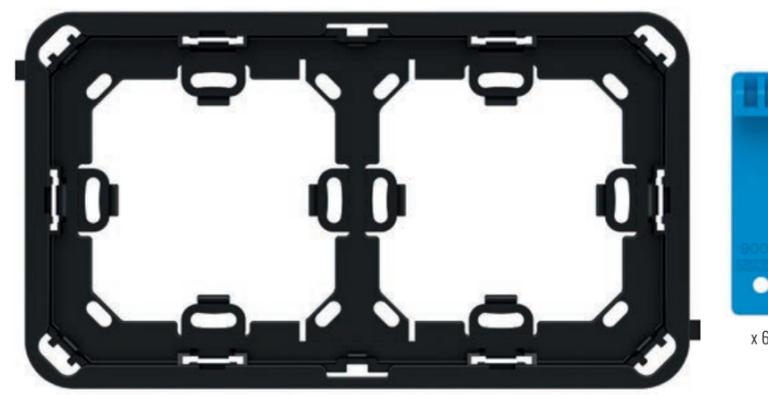
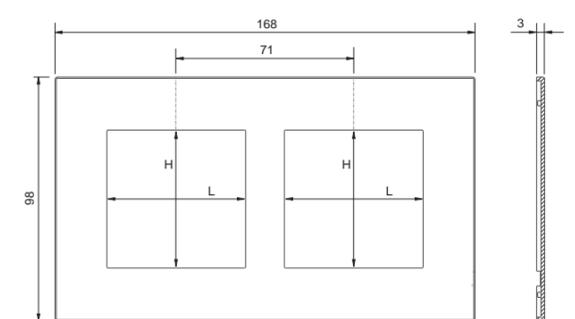
### Order information

Code	Windows L x H [mm]	For use with	Package
EK-S2E	45 x 45 (2)	two devices installed 71 mm apart (devices of 20venti and 71 series and/or flush-mounting inserts)	1 pcs.
EK-S2F	45 x 45 (1), 60 x 60 (1)		
EK-S2P-...	55 x 55 (2)		
EK-S2G-...	55 x 55 (1), 60 x 60 (1)		
EK-S2S-...	60 x 60 (2)		

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



## Adapter for Surface double plate

WALL-MOUNT DEVICES

### Description

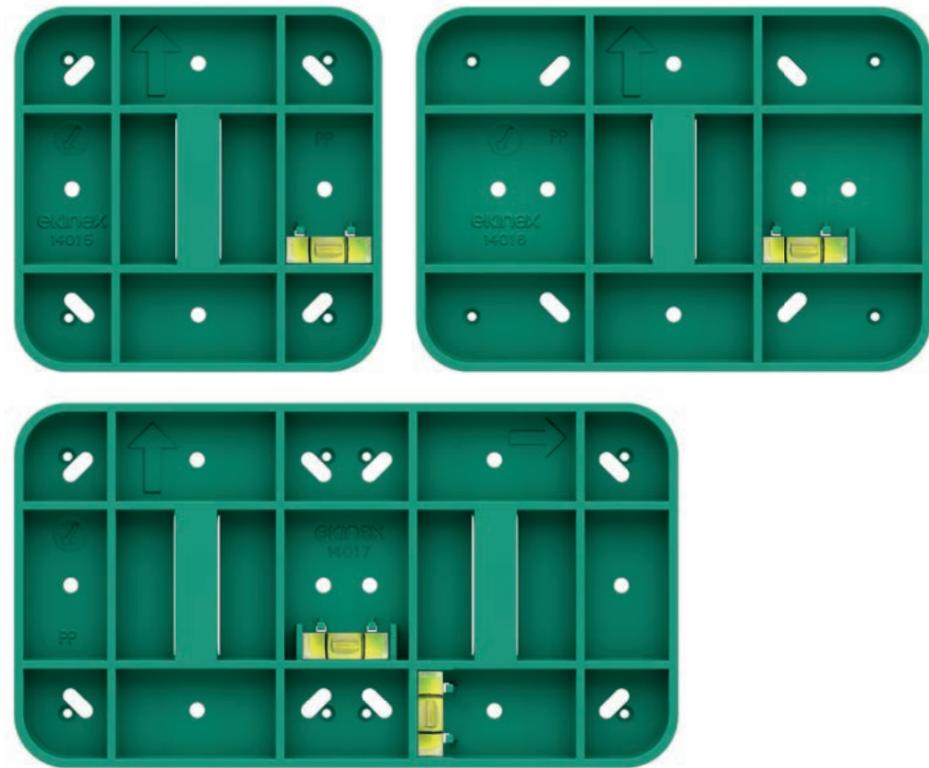
Adapter for mounting of a Surface double plate.

### Main features

- Plastic material
- With fixing ties for movable walls
- For mounting onto mounting boxes with fixing holes 71 mm apart
- Installation NOT guaranteed on movable walls greater than 30 mm

### Order information

Code	For use with	Side profile	Package
EK-TAS-D-1	Surface double plate	black	1 pcs.



## Template for Surface plates

WALL-MOUNT DEVICES

### Description

Template for making holes during wall plastering in order to mount a Surface plate-adapter bundle.

### Main features

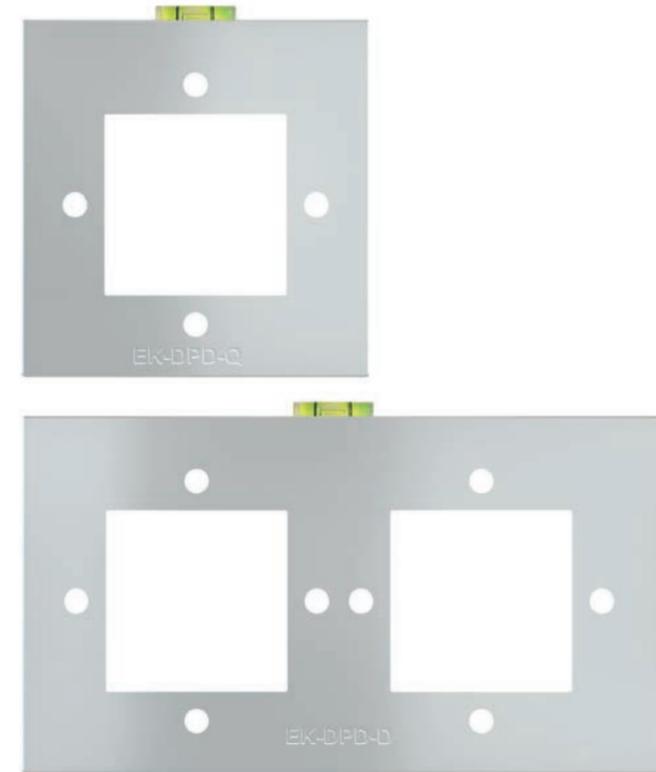
- Plastic material
- With spirit level for perfect horizontal alignment
- Mounting onto round or square mounting box with fixing holes 60 mm apart
- Double template for flush-mounting boxes with centre distance 71 mm

### Delivery

The template (EK-DPS-...) for mounting the Surface adapter-plate assembly must be ordered separately.

### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-DPS-Q-N-1	87 x 87 x 10	Template for square plate	1 pcs.
EK-DPS-R-N-1	122 x 87 x 10	Template for rectangular plate	
EK-DPS-D-N-1	157 x 87 x 10	Template for double plate	



## Templates for installation of civil series components on 'NF/Deep applications

WALL-MOUNT DEVICES  
COMING SOON

### Description

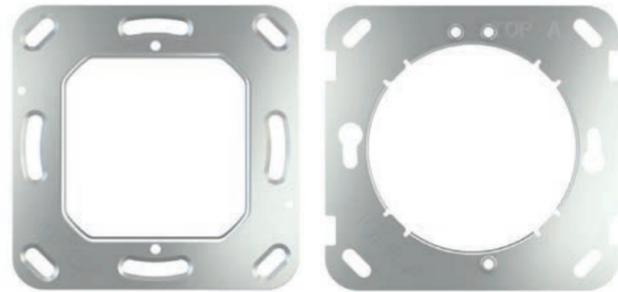
Templates facilitating the placement (pre-assembly) of commercial civil series components on NF' and Deep applications. Mounting on 2-position box.

### Main features

- Made of machined, unpainted aluminium
- With spirit level for perfect horizontal alignment
- Mounting on round or square flush-mounting box (hole spacing 60 mm)
- Double template for mounting on flush-mounting box with device centre distance 71 mm

### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-DPD-Q	87 x 90 x 8.7	Template for square plate	1 pcs.
EK-DPD-D	160 x 90 x 9.7	Template for double plate	



## Square mounting support

WALL-MOUNT DEVICES

### Description

Square metallic support for mounting Ekinex® devices onto round or square mounting boxes with fixing holes 60 mm apart.

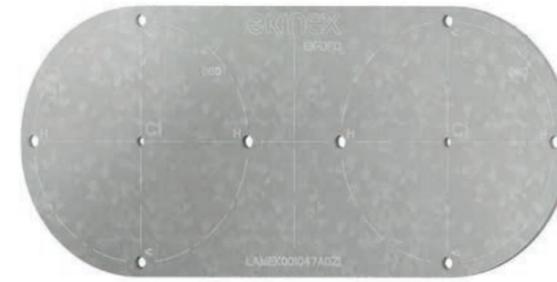
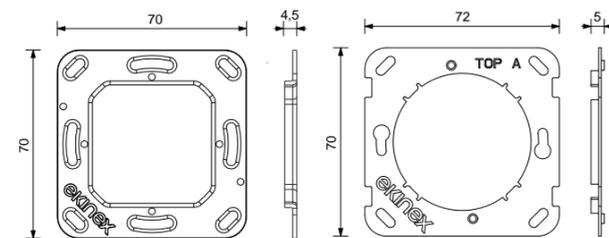
### Note

A mounting support is delivered with each Ekinex® device.

### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-SMQ-1	72 x 70 x 5	thermostats and Touch&See FF series	
EK-SMQ-71-1	70 x 70 x 4,5	devices of 20venti or 71 series and 4-fold pushbutton of FF series	1 pcs.
EK-SMQ-71-S	70 x 70 x 4,5	devices of Signum	

### Dimensions [mm]



## Template for side-by-side mounting of FF series with Form frames

WALL-MOUNT DEVICES

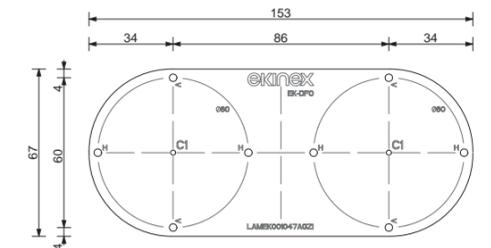
### Description

Template for horizontal or vertical double-mounting of two Ekinex® devices of FF series with square frame of the Form version. Made of zinc-plated metal sheet, 1 mm thick. Employ depends on wall type (brick or movable walls).

### Order information

Code	Frames	For use with	Package
EK-DFO	Form	2 devices of FF series completed with square Form frames	5 pcs.

### Dimensions [mm]



## Rectangular mounting support

WALL-MOUNT DEVICES

### Description

Rectangular metallic support for mounting Ekinex® devices onto round or square mounting boxes with fixing holes 60 mm apart or onto rectangular, 3-seater mounting box with fixing holes 85 mm apart.

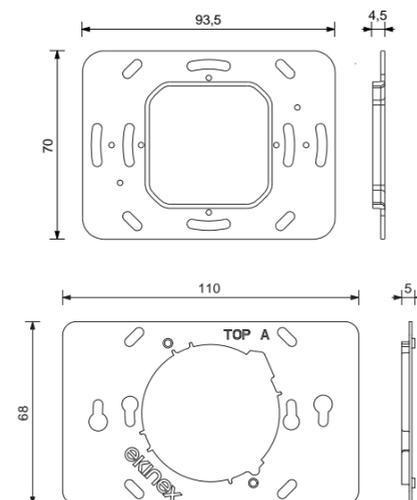
### Note

A mounting support is delivered with each Ekinex® device.

### Order information

Code	Dimensions L x H x P [mm]	For use with	Package
EK-SMR-1	110 x 68 x 5	Touch&See with 2-fold pushbutton of FF series	1 pcs.
EK-SMR-71-1	93,5 x 70 x 4,5	devices of 20venti or 71 series and 4/6-fold pushbutton of FF series	

### Dimensions [mm]



## Template for side-by-side mounting of FF series with Flank frames

WALL-MOUNT DEVICES

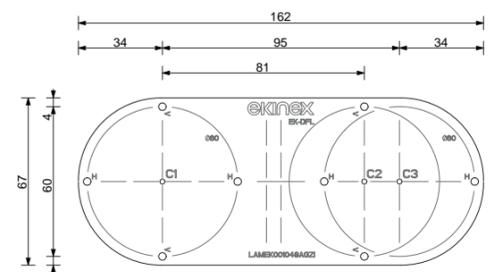
### Description

Template for horizontal or vertical double-mounting of two Ekinex® devices of FF series with square frame of the Flank version. Made of zinc-plated metal sheet, 1 mm thick. Employ depends on wall type (brick or movable walls).

### Order information

Code	Frames	For use with	Package
EK-DFL	Flank	2 devices of FF series completed with square Flank frames	5 pcs.

### Dimensions [mm]



## Solutions for the Swiss market

WALL-MOUNT DEVICES



### The following components are used for the Swiss market:

- Double plate with 60 x 60 mm windows that allows the side-by-side installation of an Ekinex® device from 20venti or 71 series and a power socket (Feller) with 60 x 60 mm modularity or two power sockets (Feller) with 60 x 60 mm modularity with 68 mm spacing.
- Double plate with 60 x 60 mm windows that allows two Ekinex® devices from 20venti or 71 series to be mounted side by side with a distance between centres of 71 mm.
- Square plate with 60 x 60 mm windows allowing the mounting of a power socket (Feller) with 60 x 60 mm modularity. Installation is only possible if the corresponding support (EK-TAQ-1-CH) is used.
- Single and double metal mounting supports for horizontal/vertical installation

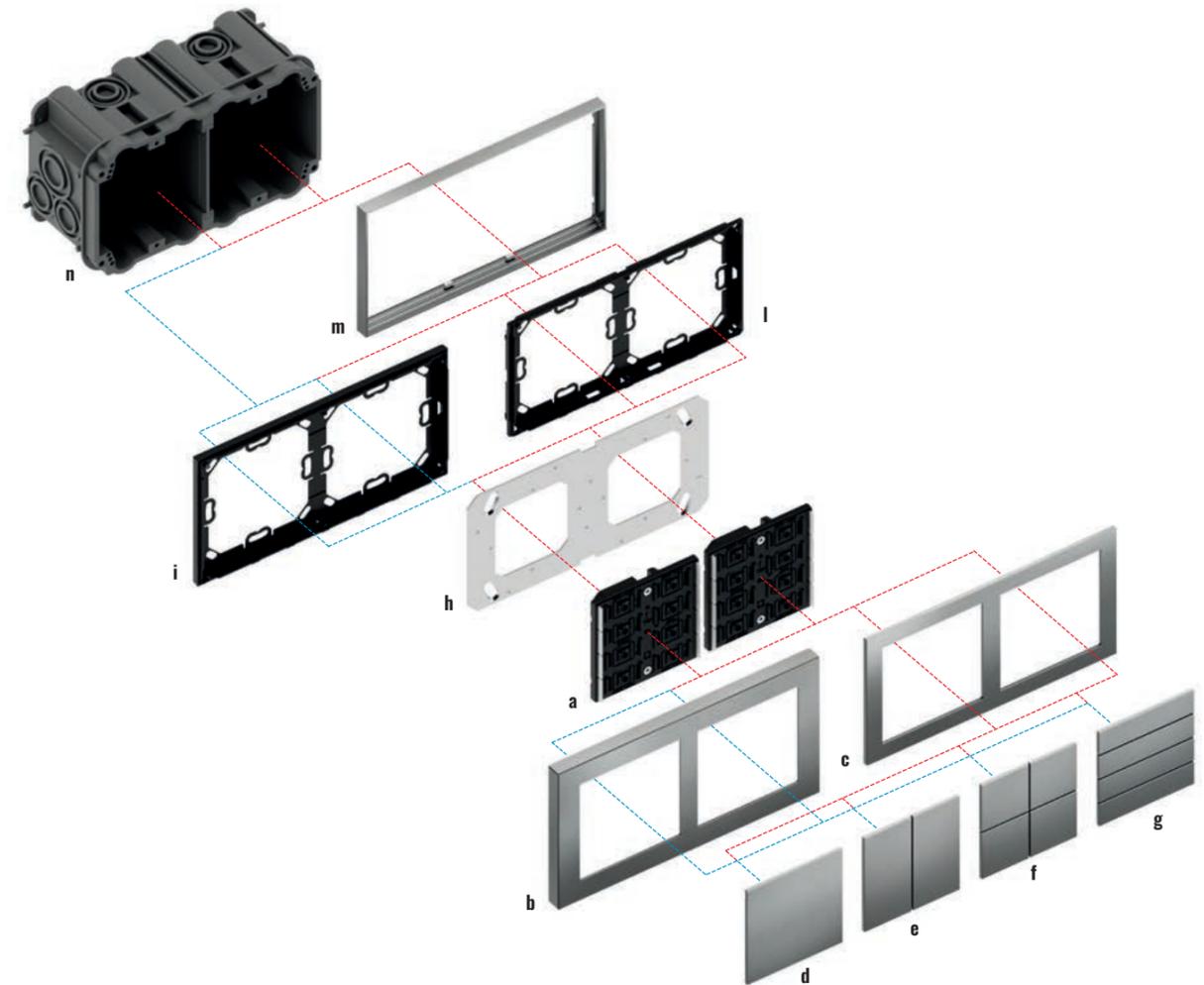
The plate can be mounted without frame (NF or Deep) or with double frame Form version.

The double plate with with 60 x 60 mm modularity and 68 mm spacing is available in aluminium or Fenix NTM®.

Installation can be done horizontally or vertically using the mounting supports.

### Requirements for the flush mount box(es)

- Fixing holes in corner position

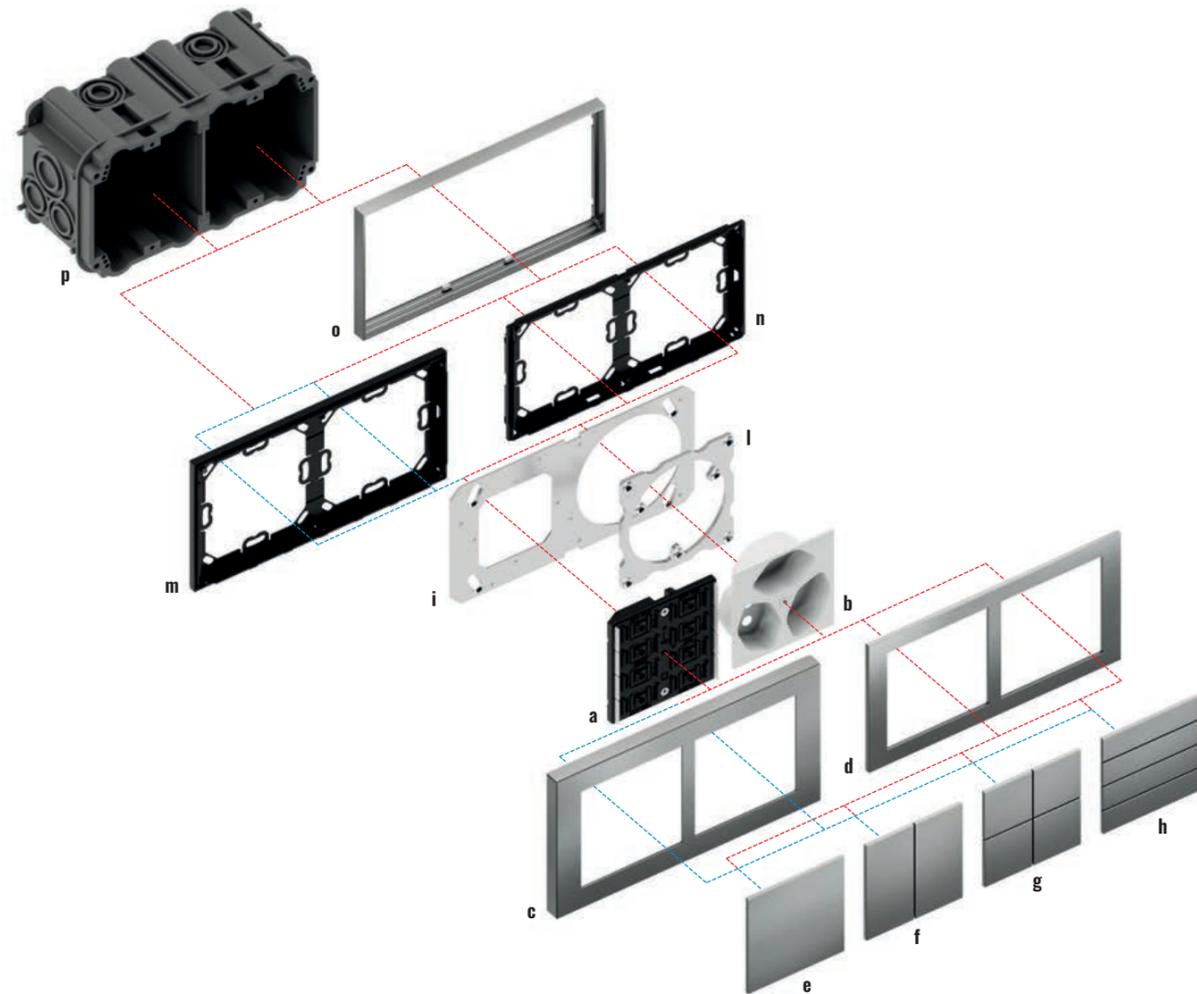


### Double pushbutton installation 71 series

Description	Code
a) Pushbutton 71 series	EK-E13-TP-... o EK-E23-TP-...
b) Deep double plate*	EK-D2S-...
c) Double plate*	EK-P2S-...
d) Square rocker (1)	EK-T1Q-...
e) Rectangular vertical rockers (2)	EK-T2R-...
f) Square rockers (4)	EK-T4Q-...
g) Rectangular horizontal rockers (4)	EK-T4R-...
h) Metal mounting support**	EK-SM2-CHX

Description	Code
i) Double adapter for frame-free installation	EK-A71E-1-NF
j) Adapter for double plate with a Form or Flank frame	EK-A71E
m) Form version double frame	EK-F02-...
n) Double box for masonry walls (centre distance 60 mm)	not delivered by Ekinex®

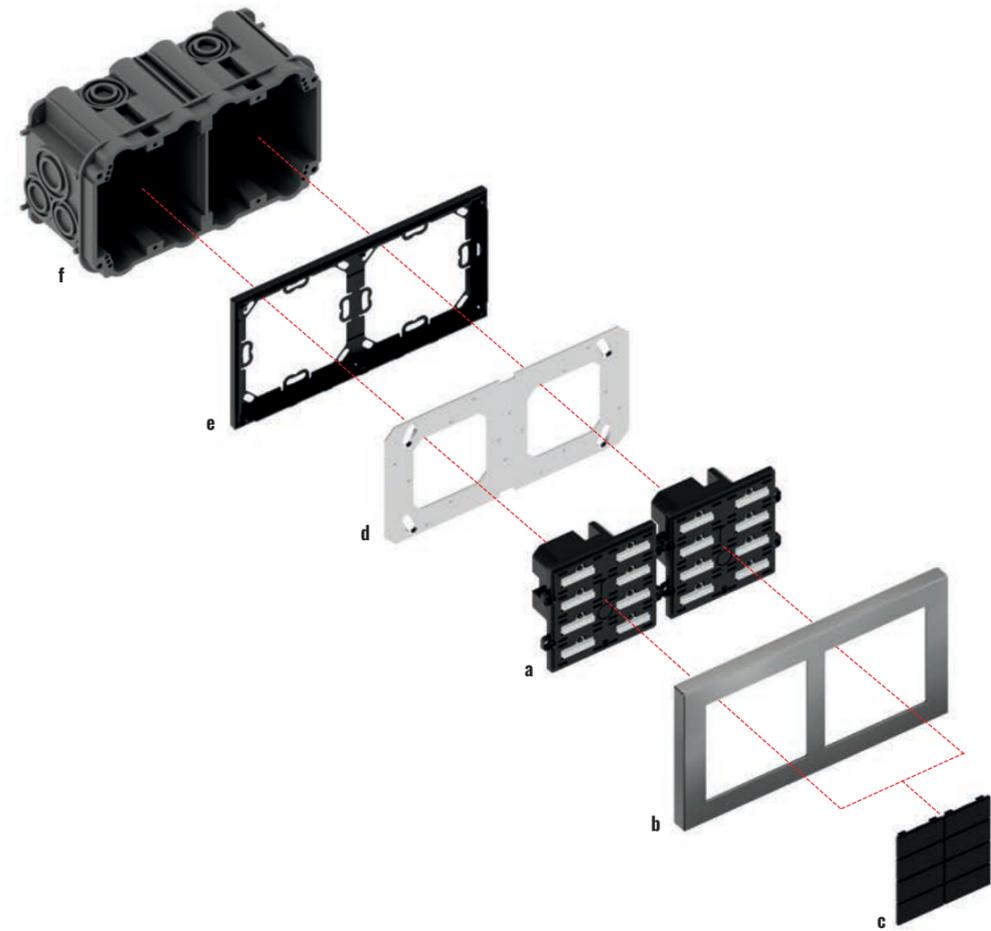
\*) 60 x 60 mm windows  
 \*\*) Available for horizontal or vertical mounting



**Double pushbutton installation 71 series + power socket (60 x 60 mm)**

Description	Code
a) Pushbutton 71 series	EK-E13-TP-... or EK-E23-TP-...
b) Power socket 60 x 60 mm	not delivered by Ekinex®
c) Deep double plate*	EK-D2H-...
d) Double plate*	EK-P2H-...
e) Square rocker (1)	EK-T1Q-...
f) Rectangular vertical rockers (2)	EK-T2R-...
g) Square rockers (4)	EK-T4Q-...
h) Rectangular horizontal rockers (4)	EK-T4R-...
i) Metal mounting support**	EK-SM2-CHY

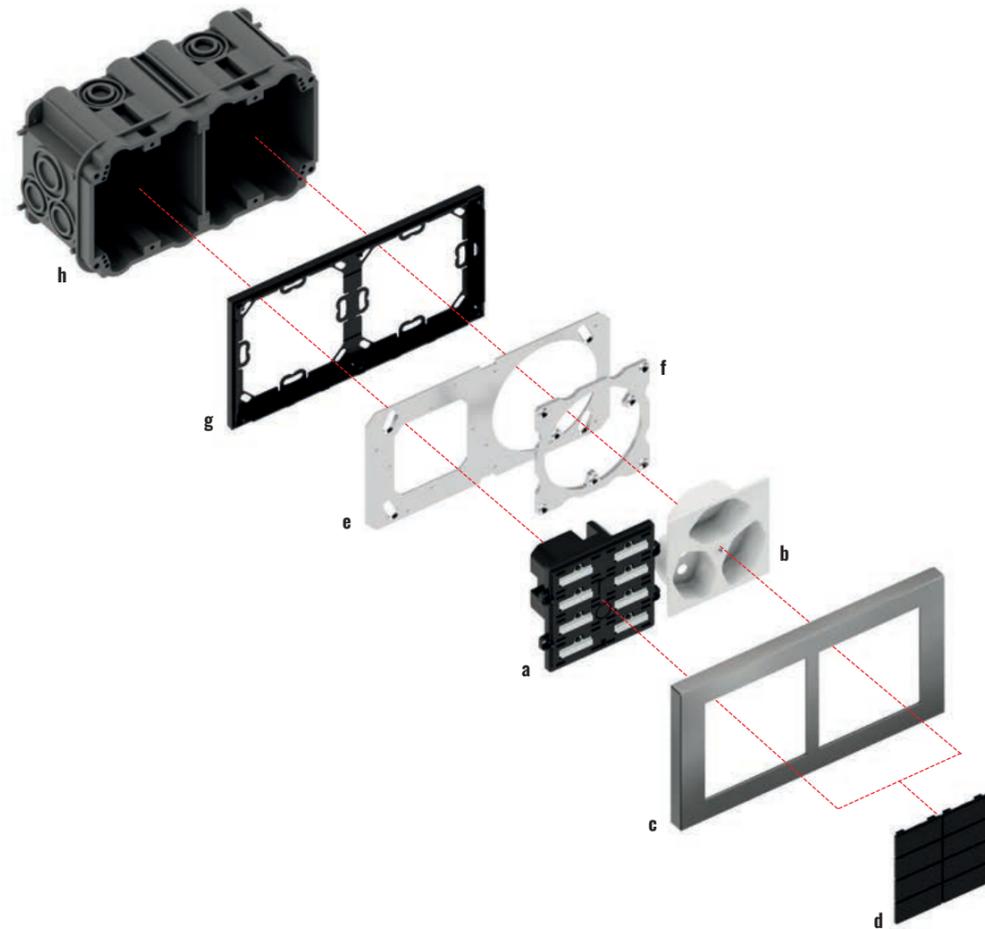
Description	Code
j) Metal mounting support**	EK-SM1-CHT
m) Double adapter for frame-free installation	EK-A71-1-NF
n) Adapter for double plate with a Form or Flank frame	EK-A71
o) Form version double frame	EK-FO2-...
p) Double box for masonry walls (centre distance 60 mm)	not delivered by Ekinex®
*) 60 x 60 mm windows	
**) Available for horizontal or vertical mounting	



**Double pushbutton installation 20venti series**

Description	Code
a) Pushbutton 20venti series	EK-E20-TP-...-PN
b) Deep double plate*	EK-D2S-...
c) Rectangular horizontal rockers	EK-T4R-20-BT...
d) Metal mounting support**	EK-SM2-CHX

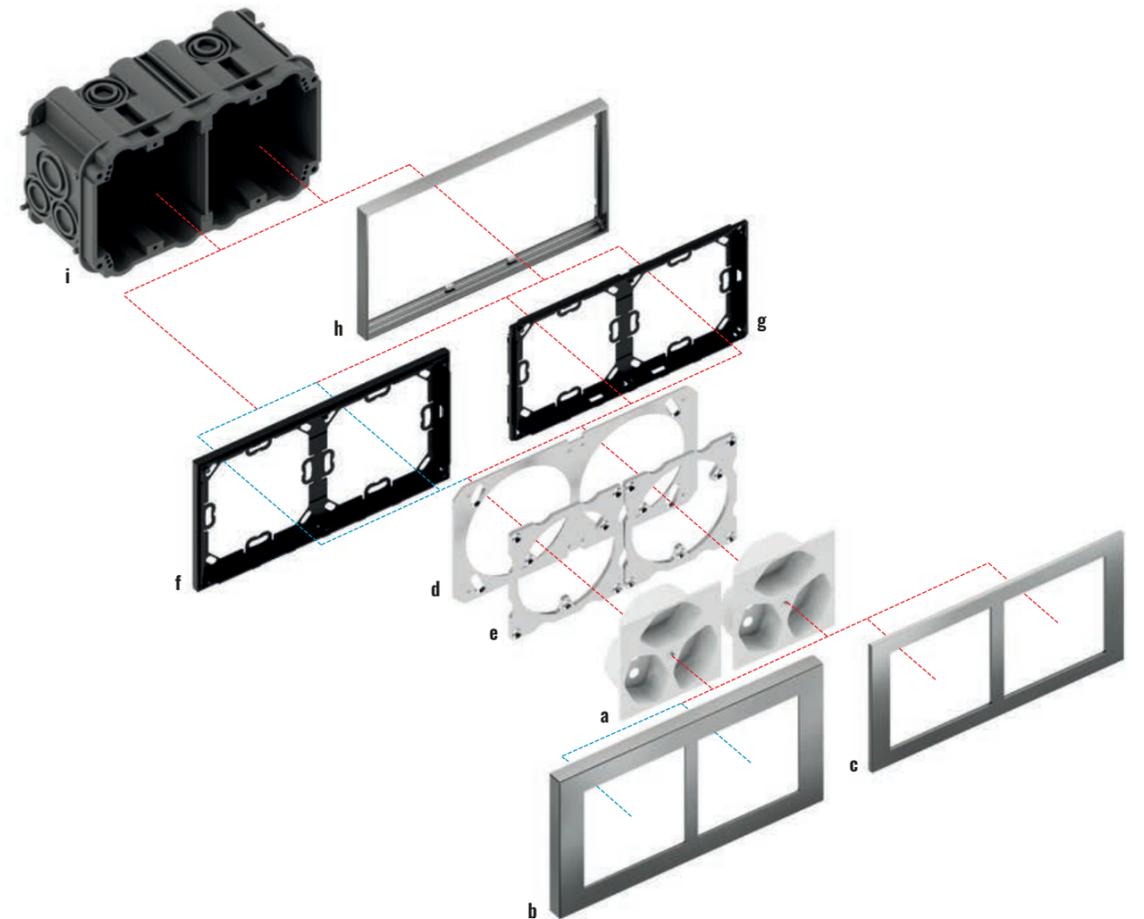
Description	Code
e) Double adapter for frame-free installation	EK-A71E-1-NF
f) Double box for masonry walls (centre distance 60 mm)	not delivered by Ekinex®
*) 60 x 60 mm windows	
**) Available for horizontal or vertical mounting	



**Double pushbutton installation 20venti series + power socket (60 x 60 mm)**

Description	Code
a) Pushbutton 20venti series	EK-E20-TP...-PN
b) Power socket 60 x 60 mm	not delivered by Ekinex®
c) Deep double plate*	EK-D2H-...
d) Rectangular horizontal rockers	EK-T4R-20-BT...
e) Metal mounting support**	EK-SM2-CHY

Description	Code
f) Metal mounting support**	EK-SM1-CHT
g) Double adapter for frame-free installation	EK-A71-1-NF
h) Double box for masonry walls (centre distance 60 mm)	not delivered by Ekinex®
*) 60 x 60 mm windows	
**) Available for horizontal or vertical mounting	



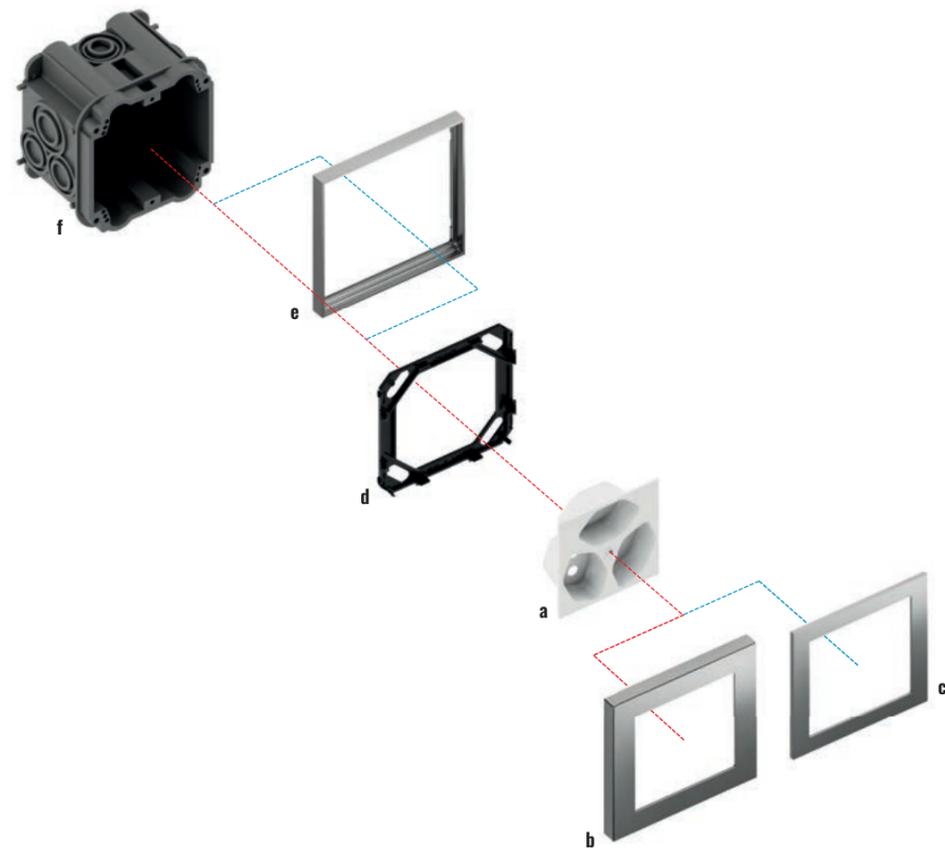
**Double power sockets installation (60 x 60 mm)**

Description	Code
a) Power socket 60 x 60 mm	not delivered by Ekinex®
b) Deep double plate*	EK-D2H-...
c) Double plate*	EK-P2H-...
d) Metal mounting support**	EK-SM2-CHZ
e) Metal mounting support**	EK-SM1-CHT
f) Double adapter for frame-free installation	EK-A71-1-NF

Description	Code
g) Adapter for double plate with a Form or Flank frame	EK-A71
h) Form version double frame	EK-FO2-...
i) Double box for masonry walls (centre distance 60 mm)	not delivered by Ekinex®
*) 60 x 60 mm windows	
**) Available for horizontal or vertical mounting	

# Mounting supports

WALL-MOUNT DEVICES



**Power socket installation (60 x 60 mm)**

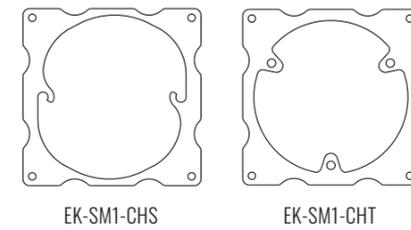
Description	Code
a) Power socket 60 x 60 mm	not delivered by Ekinex®
b) Deep square plate*	EK-D2C-...
c) Square plate*	EK-P2C-...
d) Adapter for square plate	EK-TAQ-1-CH

Description	Code
e) Form version square frame	EK-FOQ-...
f) Double box for masonry walls (centre distance 60 mm)	not delivered by Ekinex®
*) 60 x 60 mm windows	

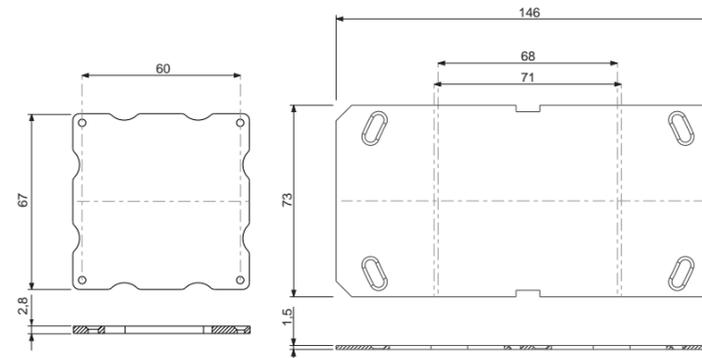


**Single mounting supports**

Single replacement metal support for mounting of single or triple socket (Feller). Fixing screws included.



**Dimensions [mm]**

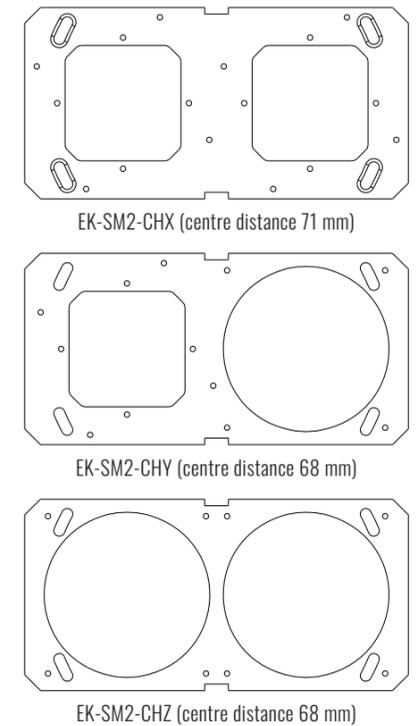


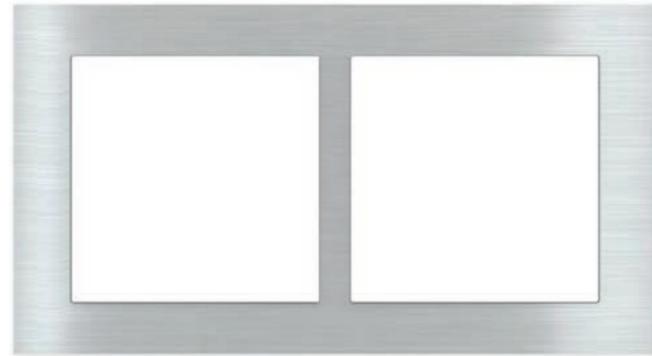
**Order information**

Code	Installation	Description
EK-SM1-CHS	single	Replacement metal support for (Feller 60 x 60 mm) single socket
EK-SM1-CHT		Replacement metal support for (Feller 60 x 60 mm) triple socket
EK-SM2-CHX	double horizontal vertical	2 seats for Ekinex® 20venti or 71 series devices
EK-SM2-CHY		1 seat for Ekinex® 20venti or 71 series device 1 seat for 1 single socket (Feller 60 x 60 mm)
EK-SM2-CHZ		2 seats for sockets (Feller 60 x 60 mm)

**Double mounting supports (horizontal/vertical)**

Double metal support for mounting two power sockets (Feller), one Ekinex® device from 20venti or 71 series and one power sockets (Feller), two Ekinex® devices from 20venti or 71 series. Fixing screws included.





## Double plate with 68 or 71 mm centre distance window

WALL-MOUNT DEVICES

### Description

Double plate with 60 x 60 mm windows for mounting two power sockets (Feller) at 68 mm centre distance, an Ekinex® 20venti or 71 series device and a power socket (Feller) and for mounting two Ekinex® 20venti or 71 series devices at 71 mm centre distance. Round box components must be 60 x 60 mm in size.

### Main features

- In aluminium, Metal HT or Fenix NTM®
- Snap-on mounting on adapter\*

### Order information

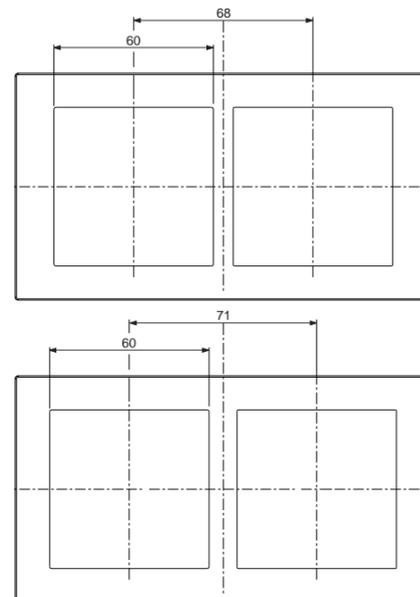
Code	Windows L x H [mm]	For use with	Package
EK-P2H... (NF)**	60 x 60	mounting with centre distance 68 mm	1 pcs.
EK-D2H... (Deep)			
EK-P2S... (NF)		mounting with centre distance 71 mm	
EK-D2S... (Deep)			

\*) For mounting: please order adapter separately (see next page).  
 \*\*) Not available in Metal HT

### Order

Base-codes must be completed by adding extensions for material, colour and finishing (3 characters).

### Dimensions [mm]



### Description

Adapter for snap-on mounting of a square plate together with a power socket (Feller).

### Main features

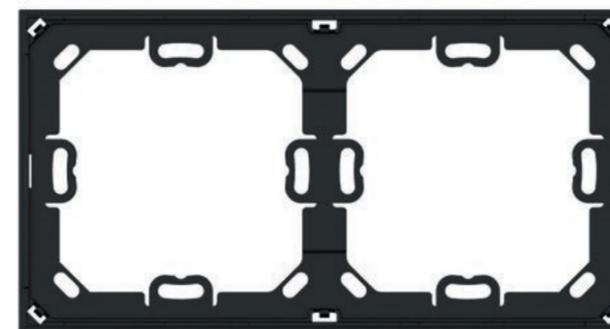
- In plastic material

## Adapter for square plate and power socket (Feller)

WALL-MOUNT DEVICES

### Order information

Code	For use with	Side profile	Package
EK-TAQ-1-CH	square plate with Form or Flank frame or without frame (*NF or Deep version) and a power socket (Feller)	black	1 pcs.



### Description

Adapter for snap-on mounting of a double plate.

### Main features

- In plastic material

## Adapter for double plate

WALL-MOUNT DEVICES

### Order information

Code	For use with	Side profile	Package
EK-A71	double plate with a Form or Flank frame	black	1 pcs.
EK-A71-1-NF	double plate of 71 series without frame (*NF version)		

# Material and finishes

## WALL-MOUNT DEVICES

### METAL HT

			
<b>CRO</b> Chrome	<b>GBM</b> Black Metal	<b>COP</b> Copper coming soon	<b>CHA</b> Champagne coming soon
<b>Plates</b> Signum 20venti 71 Deep and Surface			
<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71

### METAL (BRUSHED)

				
<b>GBQ</b> Aluminium brushed finishing	<b>GBR</b> Nickel brushed finishing	<b>GBS</b> Titanium brushed finishing	<b>GBU</b> Carbon brushed finishing	<b>GBB</b> Brass brushed finishing
<b>Frames</b> FF-71 Form FF-71 Flank				
<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71
<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71

### PLASTIC ON REQUEST

					
<b>GAB</b> Ice white* soft-touch finish	<b>GAC</b> Fire white*	<b>GAD</b> Fire white* soft-touch finish	<b>GAF</b> Intense black* soft-touch RAL 9005	<b>GAI</b> Hematite* metallic plastic	<b>GAL</b> Graphite* metallic plastic
<b>Frames</b> FF-71 Form FF-71 Flank					
<b>Plates</b> 20venti Deep 71 'NF and Deep					
<b>Rockers</b> FF 71	<b>Rockers</b> 20venti FF - 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> 20venti FF - 71	<b>Rockers</b> 20venti FF - 71

### FENIX NTM®

								
<b>FBM</b> White Malé	<b>FBL</b> Beige Luxor	<b>FCO</b> Beaver Ottawa	<b>FGE</b> Grey Efeso	<b>FGL</b> Grey London	<b>FGB</b> Grey Bromine	<b>FVC</b> Green Commodore	<b>FCC</b> Cocoa Orinoco	<b>FNI</b> Black Ingo
<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71	<b>Plates</b> Signum 20venti 71
<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71	<b>Rockers</b> FF 71

\* ON REQUEST  
The range finishes shown on the left are the result of a company stylistic choice. Additional finishes in Fenix NTM® and metal are also available upon request (non-standard processes may be subject to limitation).

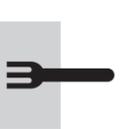
# Ekinex chooses Fenix NTM®

## WALL-MOUNT DEVICES

A super opaque nanotech material, is an innovative interior design product, that combines elegant aesthetic solutions with state-of-the-art technological performance.

Fenix NTM® is an innovative interior design product, that combines elegant aesthetic solutions with state-of-the-art technological performance. The external surface involves the use of nanotechnology and it is characterized by next generation acrylic resins, hardened and fixed with Electron Beam Curing process opening up new avenues in the field of interior design. With low light reflectivity, its surface is extremely opaque, anti-fingerprint and features a very pleasant soft touch.

More information:  
[ekinex.com/en/material-and-finishes/fenix-ntm.html](http://ekinex.com/en/material-and-finishes/fenix-ntm.html)

				
Low light reflectivity	Thermal healing of microscratches	Anti-fingerprint	Soft touch	Resistance to scratches and abrasion
				
Resistance to dry heat	High resistance to acid solvents and household reagents	Enhanced anti-bacterial properties	Hygienic	Suitable for contact with food
				
Easy to clean	Mold-resistant	Antistatic	Hydro-repellent	Dimensional stability even at high temperature changes
				
Resistance to impact	Lightfastness	Excellent intensity and colour depth	Rub resistance	Self-supporting (only for 10 and 12 mm)

Rockers for devices of 20venti, FF and 71 series can be customized with symbols from the library on the following pages. Upon request, it is also possible to customize rockers with symbols and text provided by the customer.

**Square rockers**

The code extension includes 3 characters identifying material, colour and finishing and 3 more characters identifying symbols. Within the last 3-character group, the first character identifies a double symbol, while the second and third characters identify a single symbol.

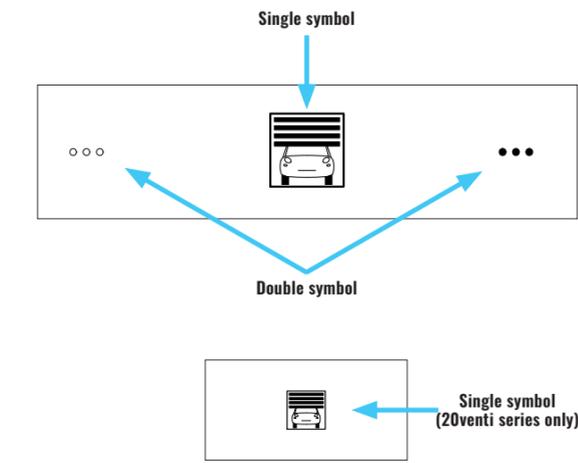
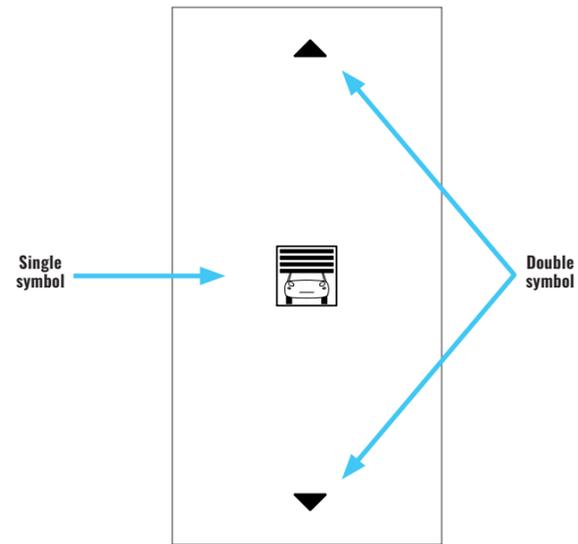
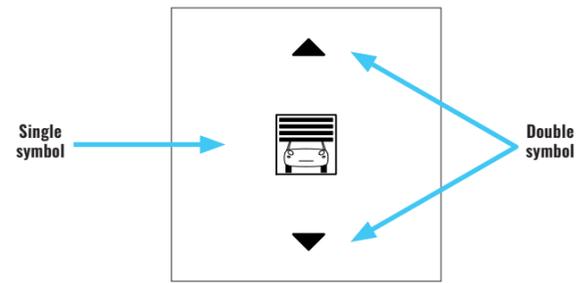
**Single symbol**

The single symbol is reproduced in the central part of the square rocker, centred both horizontally and vertically. If the second and third characters of the extension-code equal "0", the rocker has no single symbol.

**Double symbol**

The double symbol is reproduced in the upper and lower part of the square rocker, both centred horizontally. If the first character in the extension-code equals "0", the rocker has no double symbol.

**Symbols for rockers customization**  
WALL-MOUNT DEVICES



**Horizontal rectangular rockers**

The code extension includes 3 characters identifying material, colour and finishing and 3 more characters identifying symbols. Within the last 3-character group, the first character identifies a double symbol, while the second and third characters identify a single symbol.

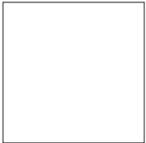
**Single symbol**

The single symbol is reproduced in the central part of the rectangular rocker, centred both horizontally and vertically. If the second and third characters of the extension-code equal "0", the rocker has no single symbol.

**Double symbol**

The double symbol is reproduced on the left and right sides of the rectangular rocker, vertically centred. If the first character in the extension-code equals "0", the rocker has no double symbol.

**Single symbols**



NS00 No symbol

**Lighting**

LI01 Dimming	LI02 Floor lamp	LI03 Wall lamp	LI04 Ceiling light pendant	LI05 Spotlight	LI06 Staircase lamp	LI07 Outdoor lighting	LI08 Ceiling light
LI09 Lighting scene	LI10 Wall lamp	LI11 Floor lamp On	LI12 Floor lamp Off	LI13 External light	LI14 General lamp	LI15 Spotlight pendant	LI16 Bulb light

**Multimedia**

MU01 Projector screen	MU02 Loudspeaker	MU03 Loudspeaker 2	MU04 Music On	MU05 Sound system	MU06 Sound system 2	MU07 Play	MU08 Stop
MU09 Pause	MU010 Rew	MU011 FFwd	MU012 TV	MU013 Wi-fi			

**Health and care**

HC01 Buzzer	HC02 Disabled	HC03 First aid	HC04 Disabled 2	HC05 WC Women	HC06 WC Man

## Door and garage

DD001 Garage open	DD002 Gate	DD003 Barrier	DD004 Pedestrian entrance	DD005 Roller, blind	DD006 Internal curtain	DD007 External curtain	DD008 Door lock
DD009 Unlock	DD010 Lock	DD011 Roof light windows open	DD012 Roof light window closed	DD013 External curtain 2	DD014 Garage closed	DD015 Garage open	DD016 Curtains open
DD017 Window closed	DD018 Window open	DD019 Roller, blind open	DD020 Roller, blind open (50%)	DD021 Roller, blind closed	DD022 Mosquito net	DD023 Curtain with embrasse	DD024 Door lock 2

## Hotel

HO01 Room service	HO02 Service	HO03 Do not disturb*	HO04 Make up room	HO05 Hotel Card	HO06 Do not disturb card	HO07 Make up room 2*

## Energy

EN01 Power Off	EN02 Power On	EN03 Electric load	EN04 Portable electric load	EN05 Electric socket On/Off	EN06 Electric socket	EN07 Led socket
EN08 Car recharge	EN09 Recharge	EN010 Bicycle recharge	EN011 Washing machine	EN012 Dishwasher		

\* Not available for 20venti series with backlit texts and symbols

## Climate

CL01 Temperature	CL02 Temperature increase	CL03 Temperature reduction	CL04 Fan	CL05 Fan speed 1	CL06 Fan speed 2	CL07 Fan speed 3	CL08 Humidity
CL09 Radiator							

## Scenarios

SC01 Comfort scenarios	SC02 External light scenarios	SC03 Manual scenarios	SC04 Night scenarios	SC05 Scenarios Off	SC06 Scenarios On	SC07 Roller opening scenarios	SC08 Roller closing scenarios
SC09 Curtains opening scenarios	SC010 Curtains closing scenarios	SC011 Party scenarios	SC012 Presence scenarios	SC013 Standby scenarios	SC014 Day scenarios On	SC015 Day scenarios Off	SC016 Presence
SC017 Presence 2	SC018 No presence scenarios	SC019 Irrigation scenarios	SC020 Clock				

## Markers

MA01 Increment (full arrow)	MA02 Decrement (full arrow)	MA03 Increment (empty arrow)	MA04 Decrement (empty arrow)
MA05 Increment (simple arrow)	MA06 Decrement (simple arrow)	MA05 Increment (plus)	MA06 Decrement (minus)

## Status Led (20venti)

MA09 Status Led

**Note.** For convenience, all the symbols in this page are shown as they appear on square rockers. The same symbols may also be requested for rectangular rockers. The symbols shown here can be replaced by customised symbols or text on request.

## Double symbols

NS00 No symbol

DM01 Simple arrow

DM02 Arrow (empty)

DM03 Arrow (empty/full)

DM04 Arrow (full)

DM05 On/Off

DM06 Bullets (empty)

DM07 Bullets (empty/full)

DM08 On/Off (I/O)

DM09 Plus / minus

DM010 Speed 1

DM011 Speed 2

DM012 Speed 3

DM013 Triple bullets (empty/full)

DM014 Volume

DM015 Triple bullets (empty/full)

DM016 On/Off

DM017 On/Off (I/O)

DM018 Plus / minus

DM019 Simple arrow

DM020 Arrow (empty)

DM021 Volume

DM022 Bullets (empty/full)

DM023 Arrow (empty/full)

## Customization with text

### WALL-MOUNT DEVICES

Square rockers can be customized with text to be shown in the upper, central or lower areas. Texts must be specified at order time.

Text added to upper area only (max 12 characters)

Text added to lower area only (max. 12 characters)

Text added to both upper and lower areas (max. 12 chars each)

Text added to central area only (1 or 2 lines, max. 12 chars each)

Horizontal rectangular rockers can be customized by means of text in their central area.

Text added to central area only (1 or 2 lines, max. 12 chars each)

Text added to central area only (max. 11 chars each) 20venti series only

Vertical rectangular rockers can be customized with text to be shown in the upper, central or lower areas.

Text added to upper area (max. 12 chars each)

Text added to central area (1 or 2 lines, max. 12 chars each)

Text added to lower area (max. 12 chars each)

## How to order a rocker

### Rockers for pushbuttons 20venti series

#### WALL-MOUNT DEVICES

#### Rockers for 4-fold pushbutton 20venti series.

The ordering code of a rocker is formed by a fixed part (EK-T) plus a variable part which represents modularity, material, colour, finishing and customization codes as shown in symbol library.

#### PLASTIC MATERIAL

Modularity	Colour	Finishing	Code
 rectangular backlit text/symbols (4 rockers 30 x 15 mm)	white	normal	EK-T4R-20-BT-GAA
	fire white	normal*	EK-T4R-20-BT-GAC
	intense black RAL 9005	normal	EK-T4R-20-BT-GAE
	silver	normal	EK-T4R-20-BT-GAG
	hematite	normal*	EK-T4R-20-BT-GAI
	graphite	normal*	EK-T4R-20-BT-GAL
	white	normal	EK-T2B-20-BT-GAA
	fire white	normal*	EK-T2B-20-BT-GAC
 rectangular dimmer (1 rocker 30 x 15 mm)	intense black RAL 9005	normal	EK-T2B-20-BT-GAE
	silver	normal	EK-T2B-20-BT-GAG
	hematite	normal*	EK-T2B-20-BT-GAI
	graphite	normal*	EK-T2B-20-BT-GAL

\*) Version on request

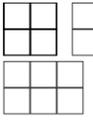
# Rockers for pushbuttons FF series

WALL-MOUNT DEVICES

## Rockers for 4-fold pushbutton FF series.

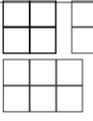
The ordering code of a rocker is formed by a fixed part (EK-T) plus a variable part which represents modularity, material, colour, finishing and customization codes as shown in symbol library.

### PLASTIC MATERIAL

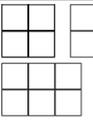
Modularity	Colour	Finishing	Code
 square	white	normal	EK-TQQ-GAA
	ice white	soft-touch*	EK-TQQ-GAB
	fire white	normal*	EK-TQQ-GAC
		soft-touch*	EK-TQQ-GAD
	intense black RAL 9005	normal	EK-TQQ-GAE
		soft-touch*	EK-TQQ-GAF
	silver	normal	EK-TQQ-GAG
	hematite	normal*	EK-TQQ-GAI
	graphite	normal*	EK-TQQ-GAL
	 rectangular (vertical)	white	normal
ice white		soft-touch*	EK-TRV-GAB
fire white		normal*	EK-TRV-GAC
		soft-touch*	EK-TRV-GAD
intense black RAL 9005		normal	EK-TRV-GAE
		soft-touch*	EK-TRV-GAF
silver		normal	EK-TRV-GAG
hematite		normal*	EK-TRV-GAI
graphite		normal*	EK-TRV-GAL
 rectangular (horizontal)		white	normal
	ice white	soft-touch*	EK-TRO-GAB
	fire white	normal*	EK-TRO-GAC
		soft-touch*	EK-TRO-GAD
	intense black RAL 9005	normal	EK-TRO-GAE
		soft-touch*	EK-TRO-GAF
	silver	normal	EK-TRO-GAG
	hematite	normal*	EK-TRO-GAI
	graphite	normal*	EK-TRO-GAL

\*) Version on request

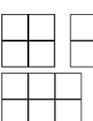
### METAL HT

Modularity	Colour	Finishing	Code
 square	Chrome	chrome plated	EK-TQQ-CRO
	Black Metal		EK-TQQ-CBM
	Copper		EK-TQQ-COP
	Champagne		EK-TQQ-CHA
 rectangular (vertical)	Chrome	EK-TRV-CRO	
	Black Metal	EK-TRV-CBM	
	Copper	EK-TRV-COP	
	Champagne	EK-TRV-CHA	
 rectangular (horizontal)	Chrome	EK-TRO-CRO	
	Black Metal	EK-TRO-CBM	
	Copper	EK-TRO-COP	
	Champagne	EK-TRO-CHA	

### ALUMINIUM

Modularity	Colour	Finishing	Code
 square	aluminium	brushed	EK-TQQ-GBQ
	nickel		EK-TQQ-GBR
	titanium		EK-TQQ-GBS
	carbon		EK-TQQ-GBU
	brass		EK-TQQ-GBB
	aluminium		EK-TRV-GBQ
 rectangular (vertical)	nickel	EK-TRV-GBR	
	titanium	EK-TRV-GBS	
	carbon	EK-TRV-GBU	
	brass	EK-TRV-GBB	
	aluminium	EK-TRO-GBQ	
	nickel	EK-TRO-GBR	
 rectangular (horizontal)	titanium	EK-TRO-GBS	
	carbon	EK-TRO-GBU	
	brass	EK-TRO-GBB	
	aluminium	EK-TRO-GBQ	
	nickel	EK-TRO-GBR	
	titanium	EK-TRO-GBS	
	carbon	EK-TRO-GBU	
	brass	EK-TRO-GBB	

### FENIX NTM®

Modularity	Colour	Code
 square	malè white	EK-TQQ-FBM
	beige luxor	EK-TQQ-FBL
	beaver ottawa	EK-TQQ-FCO
	cocoa orinoco	EK-TQQ-FCC
	grey efeso	EK-TQQ-FGE
	grey london	EK-TQQ-FGL
	grey bromine	EK-TQQ-FGB
	green commodore	EK-TQQ-FVC
	black ingo	EK-TQQ-FNI
	 rectangular verticale	malè white
beige luxor		EK-TRV-FBL
beaver ottawa		EK-TRV-FCO
cocoa orinoco		EK-TRV-FCC
grey efeso		EK-TRV-FGE
grey london		EK-TRV-FGL
grey bromine		EK-TRV-FGB
green commodore		EK-TRV-FVC
black ingo		EK-TRV-FNI
 rectangular orizzontale		malè white
	beige luxor	EK-TRO-FBL
	beaver ottawa	EK-TRO-FCO
	cocoa orinoco	EK-TRO-FCC
	grey efeso	EK-TRO-FGE
	grey london	EK-TRO-FGL
	grey bromine	EK-TRO-FGB
	green commodore	EK-TRO-FVC
	black ingo	EK-TRO-FNI

# Kit 2 rockers for room thermostats FF series

WALL-MOUNT DEVICES

### PLASTIC MATERIAL

Modularity	Colour	Finishing	Code
 square	white	normal	EK-TQQ-GAA-EP2
	ice white	soft-touch*	EK-TQQ-GAB-EP2
	fire white	normal*	EK-TQQ-GAC-EP2
		soft-touch*	EK-TQQ-GAD-EP2
	intense black RAL 9005	normal	EK-TQQ-GAE-EP2
		soft-touch*	EK-TQQ-GAF-EP2
	silver	normal	EK-TQQ-GAG-EP2
	hematite	normal*	EK-TQQ-GAI-EP2
	graphite	normal*	EK-TQQ-GAL-EP2

\*) Version on request  
Note. The kit includes 2 rockers customized with symbols for the control of thermostats functions.

### METAL HT

Modularity	Colour	Finishing	Code
 square	Chrome	chrome plated	EK-TQQ-CRO-EP2
	Black Metal		EK-TQQ-CBM-EP2
	Copper		EK-TQQ-COP-EP2
	Champagne		EK-TQQ-CHA-EP2

Note. The kit includes 2 rockers customized with symbols for the control of thermostats functions.

### ALUMINIUM

Modularity	Colour	Finishing	Code
 square	aluminium	brushed	EK-TQQ-GBQ-EP2
	nickel		EK-TQQ-GBR-EP2
	titanium		EK-TQQ-GBS-EP2
	carbon		EK-TQQ-GBU-EP2
	brass		EK-TQQ-GBB-EP2

Note. The kit includes 2 rockers customized with symbols for the control of thermostats functions.

### FENIX NTM®

Modularity	Colour	Code
 square	malè white	EK-TQQ-FBM-EP2
	beige luxor	EK-TQQ-FBL-EP2
	beaver ottawa	EK-TQQ-FCO-EP2
	cocoa orinoco	EK-TQQ-FCC-EP2
	grey efeso	EK-TQQ-FGE-EP2
	grey london	EK-TQQ-FGL-EP2
	grey bromine	EK-TQQ-FGB-EP2
	green commodore	EK-TQQ-FVC-EP2

Note. The kit includes 2 rockers customized with symbols for the control of thermostats functions.

# Rockers for pushbuttons 71 series

WALL-MOUNT DEVICES

## Rockers for 4-fold pushbutton 71 series.

The ordering code of a rocker is formed by a fixed part (EK-T) plus a variable part which represents modularity, material, colour, finishing and customization codes as shown in symbol library.

### PLASTIC MATERIAL

Modularity	Colour	Finishing	Code
 square (1 rocker 60 x 60 mm)	white	normal	EK-T1Q-MAA
	ice white	soft-touch*	EK-T1Q-GAB
	fire white	normal*	EK-T1Q-GAC
		soft-touch*	EK-T1Q-GAD
	intense black RAL 9005	normal	EK-T1Q-MAL
		soft-touch*	EK-T1Q-GAF
	silver	normal	EK-T1Q-GAG
	hematite	normal*	EK-T1Q-GAI
	graphite	normal*	EK-T1Q-GAL
	 rectangular vertical (2 rockers 30 x 60 mm)	white	normal
ice white		soft-touch*	EK-T2R-GAB
fire white		normal*	EK-T2R-GAC
		soft-touch*	EK-T2R-GAD
intense black RAL 9005		normal	EK-T2R-MAL
		soft-touch*	EK-T2R-GAF
silver		normal	EK-T2R-GAG
hematite		normal*	EK-T2R-GAI
graphite		normal*	EK-T2R-GAL
 square (4 rockers 30 x 30 mm)		white	normal
	ice white	soft-touch*	EK-T4Q-GAB
	fire white	normal*	EK-T4Q-GAC
		soft-touch*	EK-T4Q-GAD
	intense black RAL 9005	normal	EK-T4Q-MAL
		soft-touch*	EK-T4Q-GAF
	silver	normal	EK-T4Q-GAG
	hematite	normal*	EK-T4Q-GAI
	graphite	normal*	EK-T4Q-GAL
	 rectangular horizontal (4 rockers 60 x 15 mm)	white	normal
ice white		soft-touch*	EK-T4R-GAB
fire white		normal*	EK-T4R-GAC
		soft-touch*	EK-T4R-GAD
black		normal	EK-T4R-MAL
		soft-touch*	EK-T4R-GAF
silver		normal	EK-T4R-GAG
hematite		normal*	EK-T4R-GAI
graphite		normal*	EK-T4R-GAL

\*) Version on request

### METAL

Modularity	Colour	Finishing	Code
 square (1 rocker 60 x 60 mm)	aluminium		EK-T1Q-GBQ
	nickel		EK-T1Q-GBR
	titanium		EK-T1Q-GBS
	carbon		EK-T1Q-GBU
	brass		EK-T1Q-GBB
 rectangular vertical (2 rockers 30 x 60 mm)	aluminium		EK-T2R-GBQ
	nickel		EK-T2R-GBR
	titanium		EK-T2R-GBS
	carbon		EK-T2R-GBU
	brass		EK-T2R-GBB
 square (4 rockers 30 x 30 mm)	aluminium	brushed	EK-T4Q-GBQ
	nickel		EK-T4Q-GBR
	titanium		EK-T4Q-GBS
	carbon		EK-T4Q-GBU
	brass		EK-T4Q-GBB
 rectangular horizontal (4 rockers 60 x 15 mm)	aluminium		EK-T4R-GBQ
	nickel		EK-T4R-GBR
	titanium		EK-T4R-GBS
	carbon		EK-T4R-GBU
	brass		EK-T4R-GBB

### METAL HT

Modularity	Colour	Finishing	Code
 square (1 rocker 60 x 60 mm)	Chrome		EK-T1Q-CRO
	Black Metal		EK-T1Q-CBM
	Copper		EK-T1Q-COP
	Champagne		EK-T1Q-CHA
 rectangular vertical (2 rockers 30 x 60 mm)	Chrome		EK-T2R-CRO
	Black Metal		EK-T2R-CBM
	Copper		EK-T2R-COP
	Champagne		EK-T2R-CHA
 square (4 rockers 30 x 30 mm)	Chrome	chrome plated	EK-T4Q-CRO
	Black Metal		EK-T4Q-CBM
	Copper		EK-T4Q-COP
	Champagne		EK-T4Q-CHA
 rectangular horizontal (4 rockers 60 x 15 mm)	Chrome		EK-T4R-CRO
	Black Metal		EK-T4R-CBM
	Copper		EK-T4R-COP
	Champagne		EK-T4R-CHA

### FENIX NTM®

Modularity	Colour	Code
 square (1 rocker 60 x 60 mm)	malè white	EK-T1Q-FBM
	beige luxor	EK-T1Q-FBL
	beaver ottawa	EK-T1Q-FCO
	cocoa orinoco	EK-T1Q-FCC
	grey efeso	EK-T1Q-FGE
	grey london	EK-T1Q-FGL
	grey bromine	EK-T1Q-FGB
	green commodore	EK-T1Q-FVC
	black ingo	EK-T1Q-FNI
	 rectangular vertical (2 rockers 30 x 60 mm)	malè white
beige luxor		EK-T2R-FBL
beaver ottawa		EK-T2R-FCO
cocoa orinoco		EK-T2R-FCC
grey efeso		EK-T2R-FGE
grey london		EK-T2R-FGL
grey bromine		EK-T2R-FGB
green commodore		EK-T2R-FVC
black ingo		EK-T2R-FNI
 square (4 rockers 30 x 30 mm)		malè white
	beige luxor	EK-T4Q-FBL
	beaver ottawa	EK-T4Q-FCO
	cocoa orinoco	EK-T4Q-FCC
	grey efeso	EK-T4Q-FGE
	grey london	EK-T4Q-FGL
	grey bromine	EK-T4Q-FGB
	green commodore	EK-T4Q-FVC
	black ingo	EK-T4Q-FNI
	 rectangular horizontal (4 rockers 60 x 15 mm)	malè white
beige luxor		EK-T4R-FBL
beaver ottawa		EK-T4R-FCO
cocoa orinoco		EK-T4R-FCC
grey efeso		EK-T4R-FGE
grey london		EK-T4R-FGL
grey bromine		EK-T4R-FGB
green commodore		EK-T4R-FVC
black ingo		EK-T4R-FNI

# How to order a front cover

## Multisensors

WALL-MOUNT DEVICES

### Front cover - Multisensors

The ordering code of a rocker is formed by a fixed part (EK-T) plus a variable part which represents modularity, material, colour, finishing and model.

#### PLASTIC MATERIAL

Modularity	Colour	Finishing	Code	
 Front cover Multisensor (60 x 60 mm)	white	normal	EK-T1Q-GAA-ET2	EK-T1Q-GAA-ES2
	ice white	soft-touch*	EK-T1Q-GAB-ET2	EK-T1Q-GAB-ES2
	fire white	normal*	EK-T1Q-GAC-ET2	EK-T1Q-GAC-ES2
		soft-touch*	EK-T1Q-GAD-ET2	EK-T1Q-GAD-ES2
	intense black RAL 9005	normal	EK-T1Q-GAE-ET2	EK-T1Q-GAE-ES2
		soft-touch*	EK-T1Q-GAF-ET2	EK-T1Q-GAF-ES2
	silver	normal	EK-T1Q-GAG-ET2	EK-T1Q-GAG-ES2
	hematite	normal*	EK-T1Q-GAI-ET2	EK-T1Q-GAI-ES2
	graphite	normal*	EK-T1Q-GAL-ET2	EK-T1Q-GAL-ES2

\*) Version on request

#### METAL HT

Modularity	Colour	Finishing	Code	
 Front cover Multisensor (60 x 60 mm)	Chrome	chrome plated	EK-T1Q-CRO-ET2	EK-T1Q-CRO-ES2
	Black Metal		EK-T1Q-CBM-ET2	EK-T1Q-CBM-ES2
	Copper		EK-T1Q-COP-ET2	EK-T1Q-COP-ES2
	Champagne		EK-T1Q-CHA-ET2	EK-T1Q-CHA-ES2

#### METAL

Modularity	Colour	Finishing	Code	
 Front cover Multisensor (60 x 60 mm)	aluminium	brushed	EK-T1Q-GBQ-ET2	EK-T1Q-GBQ-ES2
	nickel		EK-T1Q-GBR-ET2	EK-T1Q-GBR-ES2
	titanium		EK-T1Q-GBS-ET2	EK-T1Q-GBS-ES2
	carbon		EK-T1Q-GBU-ET2	EK-T1Q-GBU-ES2
	brass		EK-T1Q-GBB-ET2	EK-T1Q-GBB-ES2

#### FENIX NTM®

Modularity	Colour	Finishing	Code	
 Front cover Multisensor (60 x 60 mm)	malè white	brushed	EK-T1Q-FBM-ET2	EK-T1Q-FBM-ES2
	beige luxor		EK-T1Q-FBL-ET2	EK-T1Q-FBL-ES2
	beaver ottawa		EK-T1Q-FCO-ET2	EK-T1Q-FCO-ES2
	cocoa orinoco		EK-T1Q-FCC-ET2	EK-T1Q-FCC-ES2
	grey efeso		EK-T1Q-FGE-ET2	EK-T1Q-FGE-ES2
	grey london		EK-T1Q-FGL-ET2	EK-T1Q-FGL-ES2
	grey bromine		EK-T1Q-FGB-ET2	EK-T1Q-FGB-ES2
	green commodore		EK-T1Q-FVC-ET2	EK-T1Q-FVC-ES2
	black ingo		EK-T1Q-FNI-ET2	EK-T1Q-FNI-ES2

# Voice assistant

WALL-MOUNT DEVICES

COMING SOON

### Eséguo voice assistant.

The ordering code of a rocker is formed by a fixed part (EK-T) plus a variable part which represents modularity, material, colour and finishing.

#### PLASTIC MATERIAL

Modularity	Colour	Finishing	Code	
 Voice assistant (60 x 60 mm)	white	normal	EK-VA2-WL-GAA	
	ice white	soft-touch*	EK-VA2-WL-GAB	
	fire white	normal*	EK-VA2-WL-GAC	
		soft-touch*	EK-VA2-WL-GAD	
	intense black RAL 9005	normal	EK-VA2-WL-GAE	
		soft-touch*	EK-VA2-WL-GAF	
	silver	normal	EK-VA2-WL-GAG	
	hematite	normal*	EK-VA2-WL-GAI	
	graphite	normal*	EK-VA2-WL-GAL	

\*) Version on request

#### METAL-EFFECT PAINTING

Modularity	Colour	Finishing	Code	
 Voice assistant (60 x 60 mm)	aluminium	brushed	EK-VA2-WL-GBQ	
	nickel		EK-VA2-WL-GBR	
	titanium		EK-VA2-WL-GBS	
	carbon		EK-VA2-WL-GBU	
	brass		EK-VA2-WL-GBB	

#### FENIX NTM®-EFFECT PAINTING

Modularity	Colour	Code
 Voice assistant (60 x 60 mm)	malè white	EK-VA2-WL-FBM
	beige luxor	EK-VA2-WL-FBL
	beaver ottawa	EK-VA2-WL-FCO
	cocoa orinoco	EK-VA2-WL-FCC
	grey efeso	EK-VA2-WL-FGE
	grey london	EK-VA2-WL-FGL
	grey bromine	EK-VA2-WL-FGB
	green commodore	EK-VA2-WL-FVC
	black ingo	EK-VA2-WL-FNI

# Keystone system

WALL-MOUNT DEVICES

### Keystone cover.

The ordering code of a rocker is formed by a fixed part (EK-KSC) plus a variable part which represents modularity, material, colour and finishing.

#### PLASTIC MATERIAL

Modularity	Colour	Finishing	Code	
 Keystone cover (55 x 55 mm)	white	normal	EK-KSC-1-GAA	EK-KSC-2-GAA
	ice white	soft-touch*	EK-KSC-1-GAB	EK-KSC-2-GAB
	fire white	normal*	EK-KSC-1-GAC	EK-KSC-2-GAC
		soft-touch*	EK-KSC-1-GAD	EK-KSC-2-GAD
	intense black RAL 9005	normal	EK-KSC-1-GAE	EK-KSC-2-GAE
		soft-touch*	EK-KSC-1-GAF	EK-KSC-2-GAF
	silver	normal	EK-KSC-1-GAG	EK-KSC-2-GAG
	hematite	normal*	EK-KSC-1-GAI	EK-KSC-2-GAI
	graphite	normal*	EK-KSC-1-GAL	EK-KSC-2-GAL

\*) Version on request

#### METAL-EFFECT PAINTING

Modularity	Colour	Finishing	Code	
 Keystone cover (55 x 55 mm)	aluminium	brushed	EK-KSC-1-GBQ	EK-KSC-2-GBQ
	nickel		EK-KSC-1-GBR	EK-KSC-2-GBR
	titanium		EK-KSC-1-GBS	EK-KSC-2-GBS
	carbon		EK-KSC-1-GBU	EK-KSC-2-GBU
	brass		EK-KSC-1-GBB	EK-KSC-2-GBB

#### METAL HT

Modularity	Colour	Finishing	Code	
 Keystone cover (55 x 55 mm)	Chrome	chrome plated	EK-KSC-1-CRO	EK-KSC-2-CRO
	Black Metal		EK-KSC-1-CBM	EK-KSC-2-CBM
	Copper		EK-KSC-1-COP	EK-KSC-2-COP
	Champagne		EK-KSC-1-CHA	EK-KSC-2-CHA

#### FENIX NTM®-EFFECT PAINTING

Modularity	Colour	Code
 Keystone cover (55 x 55 mm)	malè white	EK-KSC-1-FBM
	beige luxor	EK-KSC-1-FBL
	beaver ottawa	EK-KSC-1-FCO
	cocoa orinoco	EK-KSC-1-FCC
	grey efeso	EK-KSC-1-FGE
	grey london	EK-KSC-1-FGL
	grey bromine	EK-KSC-1-FGB
	green commodore	EK-KSC-1-FVC
	black ingo	EK-KSC-1-FNI

## Power sockets

WALL-MOUNT DEVICES

### PLASTIC MATERIAL

Version	Dimensions	Colour	Finitura	Code
Italian		bianco	normale	EK-PSC-IT-GAA
		nero intenso	normale	EK-PSC-IT-GAE
		argento	normale	EK-PSC-IT-GAG

### METAL-EFFECT PAINTING

Version	Dimensions	Colour	Code
Italian		alluminio	EK-PSC-IT-GBQ
		nicel	EK-PSC-IT-GBR
		titanio	EK-PSC-IT-GBS
		carbonio	EK-PSC-IT-GBU
		ottone	EK-PSC-IT-GBB

### METAL HT

Version	Dimensions	Colour	Code
Italian		Chrome	EK-PSC-IT-CRO
		Black Metal	EK-PSC-IT-CBM
		Copper	EK-PSC-IT-COP
		Champagne	EK-PSC-IT-CHA

### FENIX NTM®-EFFECT PAINTING

Version	Dimensions	Colour	Code
Italian		bianco malè	EK-PSC-IT-FBM
		beige luxor	EK-PSC-IT-FBL
		castoro ottawa	EK-PSC-IT-FCO
		cacao orinoco	EK-PSC-IT-FCC
		grigio efeso	EK-PSC-IT-FGE
		grigio londra	EK-PSC-IT-FGL
		grigio bromo	EK-PSC-IT-FGB
		verde comodoro	EK-PSC-IT-FVC
		nero ingo	EK-PSC-IT-FNI

## Power socket - Italian, Schuko and French version

The ordering code for the coloured cover of an electrical socket is formed by a fixed part (EK-PSC) and a variable part depending on the version (Italian or Schuko) and the colour. The ordering code for the power socket body only is EK-PWS-. (IT - DE - FR).

### PLASTIC MATERIAL

Version	Dimensions	Colour	Finitura	Code
Schuko		bianco	normale	EK-PSC-DE-GAA
		nero intenso	normale	EK-PSC-DE-GAE
		argento	normale	EK-PSC-DE-GAG
French		bianco	normale	EK-PSC-FR-GAA
		nero intenso	normale	EK-PSC-FR-GAE
		argento	normale	EK-PSC-FR-GAG

### METAL-EFFECT PAINTING

Version	Dimensions	Colour	Code
Schuko		alluminio	EK-PSC-FR-GBQ
		nicel	EK-PSC-FR-GBR
		titanio	EK-PSC-FR-GBS
		carbonio	EK-PSC-FR-GBU
		ottone	EK-PSC-FR-GBB
French		alluminio	EK-PSC-FR-GBQ
		nicel	EK-PSC-FR-GBR
		titanio	EK-PSC-FR-GBS
		carbonio	EK-PSC-FR-GBU
		ottone	EK-PSC-FR-GBB

### METAL HT

Version	Dimensions	Colour	Code
Schuko		Chrome	EK-PSC-DE-CRO
		Black Metal	EK-PSC-DE-CBM
		Copper	EK-PSC-DE-COP
		Champagne	EK-PSC-DE-CHA
French		Chrome	EK-PSC-FR-CRO
		Black Metal	EK-PSC-FR-CBM
		Copper	EK-PSC-FR-COP
		Champagne	EK-PSC-FR-CHA

### FENIX NTM®-EFFECT PAINTING

Version	Dimensions	Colour	Code
Schuko		bianco malè	EK-PSC-DE-FBM
		beige luxor	EK-PSC-DE-FBL
		castoro ottawa	EK-PSC-DE-FCO
		cacao orinoco	EK-PSC-DE-FCC
		grigio efeso	EK-PSC-DE-FGE
		grigio londra	EK-PSC-DE-FGL
		grigio bromo	EK-PSC-DE-FGB
		verde comodoro	EK-PSC-DE-FVC
		nero ingo	EK-PSC-DE-FNI
		French	
beige luxor	EK-PSC-FR-FBL		
castoro ottawa	EK-PSC-FR-FCO		
cacao orinoco	EK-PSC-FR-FCC		
grigio efeso	EK-PSC-FR-FGE		
grigio londra	EK-PSC-FR-FGL		
grigio bromo	EK-PSC-FR-FGB		
verde comodoro	EK-PSC-FR-FVC		
nero ingo	EK-PSC-FR-FNI		

## Power sockets USB

WALL-MOUNT DEVICES

### PLASTIC MATERIAL

Version	Dimensions	Colour	Finitura	Code
Italian		bianco	normale	EK-PSC-IT-USB-GAA
		nero intenso	normale	EK-PSC-IT-USB-GAE
		argento	normale	EK-PSC-IT-USB-GAG

### METAL-EFFECT PAINTING

Version	Dimensions	Colour	Code
Italian		alluminio	EK-PSC-IT-USB-GBQ
		nicel	EK-PSC-IT-USB-GBR
		titanio	EK-PSC-IT-USB-GBS
		carbonio	EK-PSC-IT-USB-GBU
		ottone	EK-PSC-IT-USB-GBB

### METAL HT

Version	Dimensions	Colour	Code
Italian		Chrome	EK-PSC-IT-USB-CRO
		Black Metal	EK-PSC-IT-USB-CBM
		Copper	EK-PSC-IT-USB-COP
		Champagne	EK-PSC-IT-USB-CHA

### FENIX NTM®-EFFECT PAINTING

Version	Dimensions	Colour	Code
Italian		bianco malè	EK-PSC-IT-USB-FBM
		beige luxor	EK-PSC-IT-USB-FBL
		castoro ottawa	EK-PSC-IT-USB-FCO
		cacao orinoco	EK-PSC-IT-USB-FCC
		grigio efeso	EK-PSC-IT-USB-FGE
		grigio londra	EK-PSC-IT-USB-FGL
		grigio bromo	EK-PSC-IT-USB-FGB
		verde comodoro	EK-PSC-IT-USB-FVC
		nero ingo	EK-PSC-IT-USB-FNI

## Power socket USB - Italian, Schuko and French version

The ordering code for the coloured cover of an electrical socket is formed by a fixed part (EK-PSC) and a variable part depending on the version (Italian or Schuko) and the colour. The ordering code for the power socket USB body only is EK-PWS-...-USB (IT - DE - FR).

### PLASTIC MATERIAL

Version	Dimensions	Colour	Finitura	Code
Schuko		bianco	normale	EK-PSC-DE-USB-GAA
		nero intenso	normale	EK-PSC-DE-USB-GAE
		argento	normale	EK-PSC-DE-USB-GAG
French		bianco	normale	EK-PSC-FR-USB-GAA
		nero intenso	normale	EK-PSC-FR-USB-GAE
		argento	normale	EK-PSC-FR-USB-GAG

### METAL-EFFECT PAINTING

Version	Dimensions	Colour	Code
Schuko		alluminio	EK-PSC-DE-USB-GBQ
		nicel	EK-PSC-DE-USB-GBR
		titanio	EK-PSC-DE-USB-GBS
		carbonio	EK-PSC-DE-USB-GBU
		ottone	EK-PSC-DE-USB-GBB
French		alluminio	EK-PSC-FR-USB-GBQ
		nicel	EK-PSC-FR-USB-GBR
		titanio	EK-PSC-FR-USB-GBS
		carbonio	EK-PSC-FR-USB-GBU
		ottone	EK-PSC-FR-USB-GBB

### METAL HT

Version	Dimensions	Colour	Code
Schuko		Chrome	EK-PSC-DE-USB-CRO
		Black Metal	EK-PSC-DE-USB-CBM
		Copper	EK-PSC-DE-USB-COP
		Champagne	EK-PSC-DE-USB-CHA
French		Chrome	EK-PSC-FR-USB-CRO
		Black Metal	EK-PSC-FR-USB-CBM
		Copper	EK-PSC-FR-USB-COP
		Champagne	EK-PSC-FR-USB-CHA

### FENIX NTM®-EFFECT PAINTING

Version	Dimensions	Colour	Code
Schuko		bianco malè	EK-PSC-DE-USB-FBM
		beige luxor	EK-PSC-DE-USB-FBL
		castoro ottawa	EK-PSC-DE-USB-FCO
		cacao orinoco	EK-PSC-DE-USB-FCC
		grigio efeso	EK-PSC-DE-USB-FGE
		grigio londra	EK-PSC-DE-USB-FGL
		grigio bromo	EK-PSC-DE-USB-FGB
		verde comodoro	EK-PSC-DE-USB-FVC
		nero ingo	EK-PSC-DE-USB-FNI
		French	
beige luxor	EK-PSC-FR-USB-FBL		
castoro ottawa	EK-PSC-FR-USB-FCO		
cacao orinoco	EK-PSC-FR-USB-FCC		
grigio efeso	EK-PSC-FR-USB-FGE		
grigio londra	EK-PSC-FR-USB-FGL		
grigio bromo	EK-PSC-FR-USB-FGB		
verde comodoro	EK-PSC-FR-USB-FVC		
nero ingo	EK-PSC-FR-USB-FNI		

## How to order a frame

WALL-MOUNT DEVICES

### Form and Flank frames for devices of FF and 71 series.

The ordering number of a frame includes a fixed part (EK-) and a variable part which depends on the series (Form or Flank), shape (square, rectangular or double), material, colour and finishing.

#### PLASTIC MATERIAL

Series	Modularity	Colour	Finishing	Code
FF - 71	square	white	normal	EK-FOQ-GAA
		ice white	soft-touch *	EK-FOQ-GAB
		fire white	normal *	EK-FOQ-GAC
			soft-touch *	EK-FOQ-GAD
		intense black RAL 9005	normal	EK-FOQ-GAE
			soft-touch *	EK-FOQ-GAF
	rectangular	silver	normal	EK-FOQ-GAG
		hematite	normal *	EK-FOQ-GAI
		graphite	normal *	EK-FOQ-GAL
		white	normal	EK-FOR-GAA
		ice white	soft-touch *	EK-FOR-GAB
		fire white	normal *	EK-FOR-GAC
soft-touch *	EK-FOR-GAD			
double	intense black RAL 9005	normal	EK-FOR-GAE	
		soft-touch *	EK-FOR-GAF	
	silver	normal	EK-FOR-GAG	
	hematite	normal *	EK-FOR-GAI	
	graphite	normal *	EK-FOR-GAL	
	double	white	normal	EK-FO2-GAA
ice white		soft-touch *	EK-FO2-GAE	
fire white		normal *	EK-FO2-GAG	
		soft-touch *	EK-FO2-GAA	
intense black RAL 9005		normal	EK-FO2-GAB	
		soft-touch *	EK-FO2-GAC	
silver	normal	EK-FO2-GAD		
hematite	normal *	EK-FO2-GAE		
graphite	normal *	EK-FO2-GAF		

\*) Version on request

## Frame Form version

WALL-MOUNT DEVICES

#### METAL

Series	Modularity	Colour	Finishing	Code
FF - 71	square	aluminium		EK-FOQ-GBQ
		nickel		EK-FOQ-GBR
		titanium		EK-FOQ-GBS
		carbon		EK-FOQ-GBU
		brass		EK-FOQ-GBB
		aluminium		EK-FOR-GBQ
	rectangular	nickel	brushed	EK-FOR-GBR
		titanium		EK-FOR-GBS
		carbon		EK-FOR-GBU
		brass		EK-FOR-GBB
		aluminium		EK-FO2-GBQ
		nickel		EK-FO2-GBR
	double	titanium		EK-FO2-GBS
		carbon		EK-FO2-GBU
		brass		EK-FO2-GBB
		aluminium		EK-FO2-GBQ
		nickel		EK-FO2-GBR
		titanium		EK-FO2-GBS
carbon		EK-FO2-GBU		
brass		EK-FO2-GBB		

#### PLASTIC MATERIAL

Series	Modularity	Colour	Finishing	Code
FF - 71	square	white	normal	EK-FLQ-GAA
		ice white	soft-touch *	EK-FLQ-GAB
		fire white	normal *	EK-FLQ-GAC
			soft-touch *	EK-FLQ-GAD
		intense black RAL 9005	normal	EK-FLQ-GAE
			soft-touch *	EK-FLQ-GAF
	double	silver	normal	EK-FLQ-GAG
		hematite	normal *	EK-FLQ-GAI
		graphite	normal *	EK-FLQ-GAL
		white	normal	EK-FL2-GAA
		ice white	soft-touch *	EK-FL2-GAB
		fire white	normal *	EK-FL2-GAC
	soft-touch *		EK-FL2-GAD	
	double	intense black RAL 9005	normal	EK-FL2-GAE
			soft-touch *	EK-FL2-GAF
		silver	normal	EK-FL2-GAG
		hematite	normal *	EK-FL2-GAI
		graphite	normal *	EK-FL2-GAL

\*) Version on request

## Frame Flank version

WALL-MOUNT DEVICES

#### METAL

Series	Modularity	Colour	Finishing	Code
FF - 71	square	aluminium		EK-FLQ-GBQ
		nickel		EK-FLQ-GBR
		titanium		EK-FLQ-GBS
		carbon		EK-FLQ-GBU
		brass		EK-FLQ-GBB
		aluminium		EK-FLR-GBQ
	rectangular	nickel	brushed	EK-FLR-GBR
		titanium		EK-FLR-GBS
		carbon		EK-FLR-GBU
		brass		EK-FLR-GBB
		aluminium		EK-FL2-GBQ
		nickel		EK-FL2-GBR
	double	titanium		EK-FL2-GBS
		carbon		EK-FL2-GBU
		brass		EK-FL2-GBB

# How to order a plate

WALL-MOUNT DEVICES

## Plates for devices of 71 series and flush-mounting inserts.

The ordering code of a plate consists of a fixed part (EK-P) and a variable part depending on shape (square or rectangular), window size (small or large), material, colour and finishing.

### FENIX NTM®

Series	Window	Colour	Code
FF - 71	45 x 45 mm	malè white	EK-PQP-FBM
		beige luxor	EK-PQP-FBL
		beaver ottawa	EK-PQP-FCO
		cocoa orinoco	EK-PQP-FCC
		grey efeso	EK-PQP-FGE
		grey london	EK-PQP-FGL
	55 x 55 mm	grey bromine	EK-PQP-FGB
		green commodore	EK-PQP-FVC
		black ingo	EK-PQP-FNI
		malè white	EK-PQG-FBM
		beige luxor	EK-PQG-FBL
		beaver ottawa	EK-PQG-FCO
60 x 60 mm	cocoa orinoco	EK-PQG-FCC	
	grey efeso	EK-PQG-FGE	
	grey london	EK-PQG-FGL	
	grey bromine	EK-PQG-FGB	
	green commodore	EK-PQG-FVC	
	black ingo	EK-PQG-FNI	
Movement sensor	50 x 50 mm	malè white	EK-PQN-FBM
		beige luxor	EK-PQN-FBL
		beaver ottawa	EK-PQN-FCO
		cocoa orinoco	EK-PQN-FCC
		grey efeso	EK-PQN-FGE
		grey london	EK-PQN-FGL
	60 x 60 mm	grey bromine	EK-PQN-FGB
		green commodore	EK-PQN-FVC
		black ingo	EK-PQN-FNI

# Square plate

WALL-MOUNT DEVICES

### METAL

Series	Window	Colour	Finishing	Code
FF - 71	45 x 45 mm	aluminium	brushed	EK-PQP-GBQ
		nickel		EK-PQP-GBR
		titanium		EK-PQP-GBS
		carbon		EK-PQP-GBU
		brass		EK-PQP-GBB
		aluminium		EK-PQG-GBQ
	55 x 55 mm	nickel	EK-PQG-GBR	
		titanium	EK-PQG-GBS	
		carbon	EK-PQG-GBU	
		brass	EK-PQG-GBB	
		aluminium	EK-PQS-GBQ	
		nickel	EK-PQS-GBR	
	60 x 60 mm	titanium	EK-PQS-GBS	
		carbon	EK-PQS-GBU	
		brass	EK-PQS-GBB	
		aluminium	EK-PQN-GBQ	
		nickel	EK-PQN-GBR	
		titanium	EK-PQN-GBS	
Movement sensor	50 x 50 mm	carbon	EK-PQN-GBU	
		brass	EK-PQN-GBB	

### PLASTIC MATERIAL

Series	Window	Colour	Finishing	Code	
FF - 71	45 x 45 mm	white	normal	EK-PQP-GAA	
		ice white	soft-touch *	EK-PQP-GAB	
		fire white	normal *	EK-PQP-GAC	
			soft-touch *	EK-PQP-GAD	
		intense black RAL 9005	normal	EK-PQP-GAE	
			soft-touch *	EK-PQP-GAF	
		silver	normal	EK-PQP-GAG	
		hematite	normal *	EK-PQP-GAI	
		graphite	normal *	EK-PQP-GAL	
		55 x 55 mm	white	normal	EK-PQG-GAA
			ice white	soft-touch *	EK-PQG-GAB
			fire white	normal *	EK-PQG-GAC
	soft-touch *			EK-PQG-GAD	
	intense black RAL 9005		normal	EK-PQG-GAE	
			soft-touch *	EK-PQG-GAF	
	silver	normal	EK-PQG-GAG		
	60 x 60 mm	hematite	normal *	EK-PQG-GAI	
		graphite	normal *	EK-PQG-GAL	
		white	normal	EK-PQS-GAA	
		ice white	soft-touch *	EK-PQS-GAB	
		fire white	normal *	EK-PQS-GAC	
			soft-touch *	EK-PQS-GAD	
	intense black RAL 9005	normal	EK-PQS-GAE		
		soft-touch *	EK-PQS-GAF		
silver	normal	EK-PQS-GAG			
hematite	normal *	EK-PQS-GAI			
graphite	normal *	EK-PQS-GAL			

\*) Version on request

### PLASTIC MATERIAL

Series	Window	Colour	Finishing	Code	
FF - 71	68 x 45 mm	white	normal	EK-PRG-GAA	
		ice white	soft-touch *	EK-PRG-GAB	
		fire white	normal *	EK-PRG-GAC	
			soft-touch *	EK-PRG-GAD	
		intense black RAL 9005	normal	EK-PRG-GAE	
			soft-touch *	EK-PRG-GAF	
		silver	normal	EK-PRG-GAG	
		hematite	normal *	EK-PRG-GAI	
		graphite	normal *	EK-PRG-GAL	
		60 x 60 mm	white	normal	EK-PRS-GAA
			ice white	soft-touch *	EK-PRS-GAB
			fire white	normal *	EK-PRS-GAC
	soft-touch *			EK-PRS-GAD	
	intense black RAL 9005		normal	EK-PRS-GAE	
			soft-touch *	EK-PRS-GAF	
	silver	normal	EK-PRS-GAG		
	hematite	normal *	EK-PRS-GAI		
	graphite	normal *	EK-PRS-GAL		

\*) Version on request

### FENIX NTM®

Series	Window	Colour	Code
FF - 71	68 x 45 mm	malè white	EK-PRG-FBM
		beige luxor	EK-PRG-FBL
		beaver ottawa	EK-PRG-FCO
		cocoa orinoco	EK-PRG-FCC
		grey efeso	EK-PRG-FGE
		grey london	EK-PRG-FGL
	60 x 60 mm	grey bromine	EK-PRG-FGB
		green commodore	EK-PRG-FVC
		black ingo	EK-PRG-FNI
		malè white	EK-PRS-FBM
		beige luxor	EK-PRS-FBL
		beaver ottawa	EK-PRS-FCO
60 x 60 mm	cocoa orinoco	EK-PRS-FCC	
	grey efeso	EK-PRS-FGE	
	grey london	EK-PRS-FGL	
	grey bromine	EK-PRS-FGB	
	green commodore	EK-PRS-FVC	
	black ingo	EK-PRS-FNI	

# Rectangular plate

WALL-MOUNT DEVICES

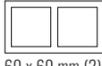
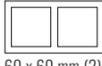
### METAL

Series	Window	Colour	Finishing	Code
FF - 71	68 x 45 mm	aluminium	brushed	EK-PRG-GBQ
		nickel		EK-PRG-GBR
		titanium		EK-PRG-GBS
		carbon		EK-PRG-GBU
		brass		EK-PRG-GBB
		aluminium		EK-PRS-GBQ
	60 x 60 mm	nickel	EK-PRS-GBR	
		titanium	EK-PRS-GBS	
		carbon	EK-PRS-GBU	
		brass	EK-PRS-GBB	

# Double plate

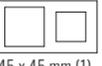
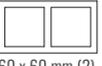
WALL-MOUNT DEVICES

## PLASTIC MATERIAL

Series	Window	Colour	Finishing	Code
FF - 71	 55 x 55 mm (2)	white	normal	EK-P2P-GAA
		ice white	soft-touch *	EK-P2P-GAB
		fire white	normal *	EK-P2P-GAC
			soft-touch *	EK-P2P-GAD
		intense black RAL 9005	normal	EK-P2P-GAE
			soft-touch *	EK-P2P-GAF
	 55 x 55 mm (1) 60 x 60 mm (1)	silver	normal	EK-P2P-GAG
		hematite	normal *	EK-P2P-GAI
		graphite	normal *	EK-P2P-GAL
		white	normal	EK-P2G-GAA
		ice white	soft-touch *	EK-P2G-GAB
		fire white	normal *	EK-P2G-GAC
soft-touch *	EK-P2G-GAD			
FF - 71	 55 x 55 mm (1) 60 x 60 mm (1)	intense black RAL 9005	normal	EK-P2G-GAE
		soft-touch *	EK-P2G-GAF	
		silver	normal	EK-P2G-GAG
		hematite	normal *	EK-P2G-GAI
		graphite	normal *	EK-P2G-GAL
		white	normal	EK-P2S-GAA
	 60 x 60 mm (2)	ice white	soft-touch *	EK-P2S-GAB
		fire white	normal *	EK-P2S-GAC
			soft-touch *	EK-P2S-GAD
		intense black RAL 9005	normal	EK-P2S-GAE
			soft-touch *	EK-P2S-GAF
		silver	normal	EK-P2S-GAG
FF - 71	 60 x 60 mm (2)	hematite	normal *	EK-P2S-GAI
		graphite	normal *	EK-P2S-GAL
		white	normal	EK-P2H-GAA
		ice white	soft-touch *	EK-P2H-GAB
		fire white	normal *	EK-P2H-GAC
			soft-touch *	EK-P2H-GAD
	 60 x 60 mm (2) swiss market	intense black RAL 9005	normal	EK-P2H-GAE
		soft-touch *	EK-P2H-GAF	
		silver	normal	EK-P2H-GAG
		hematite	normal *	EK-P2H-GAI
		graphite	normal *	EK-P2H-GAL

\*) Version on request

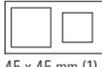
## METAL

Series	Window	Colour	Finishing	Code
FF - 71	 45 x 45 mm (2)	aluminium	brushed	EK-P2E-GBQ
		nickel		EK-P2E-GBR
		titanium		EK-P2E-GBS
		carbon		EK-P2E-GBU
		brass		EK-P2E-GBB
		aluminium		EK-P2F-GBQ
	 45 x 45 mm (1) 60 x 60 mm (1)	nickel		EK-P2F-GBR
		titanium		EK-P2F-GBS
		carbon		EK-P2F-GBU
		brass		EK-P2F-GBB
		aluminium		EK-P2P-GBQ
		nickel		EK-P2P-GBR
FF - 71	 55 x 55 mm (2)	titanium	EK-P2P-GBS	
		carbon	EK-P2P-GBU	
		brass	EK-P2P-GBB	
		aluminium	EK-P2G-GBQ	
		nickel	EK-P2G-GBR	
		titanium	EK-P2G-GBS	
	 55 x 55 mm (1) 60 x 60 mm (1)	carbon	EK-P2G-GBU	
		brass	EK-P2G-GBB	
		aluminium	EK-P2S-GBQ	
		nickel	EK-P2S-GBR	
		titanium	EK-P2S-GBS	
		carbon	EK-P2S-GBU	
FF - 71	 60 x 60 mm (2)	brass	EK-P2S-GBB	
		aluminium	EK-P2H-GBQ	
		nickel	EK-P2H-GBR	
		titanium	EK-P2H-GBS	
		carbon	EK-P2H-GBU	
		brass	EK-P2H-GBB	
	 60 x 60 mm (2) swiss market	aluminium	EK-P2H-GBQ	
		nickel	EK-P2H-GBR	
		titanium	EK-P2H-GBS	
		carbon	EK-P2H-GBU	
		brass	EK-P2H-GBB	

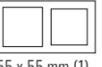
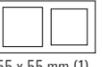
# Double plate

WALL-MOUNT DEVICES

## FENIX NTM®

Series	Window	Colour	Code
FF - 71	 45 x 45 mm (2)	malè white	EK-P2E-FBM
		beige luxor	EK-P2E-FBL
		beaver ottawa	EK-P2E-FCO
		cocoa orinoco	EK-P2E-FCC
		grey efeso	EK-P2E-FGE
		grey london	EK-P2E-FGL
	 45 x 45 mm (1) 60 x 60 mm (1)	grey bromine	EK-P2E-FGB
		green commodore	EK-P2E-FVC
		black ingo	EK-P2E-FNI
		malè white	EK-P2F-FBM
		beige luxor	EK-P2F-FBL
		beaver ottawa	EK-P2F-FCO
FF - 71	 45 x 45 mm (1) 60 x 60 mm (1)	cocoa orinoco	EK-P2F-FCC
		grey efeso	EK-P2F-FGE
		grey london	EK-P2F-FGL
		grey bromine	EK-P2F-FGB
		green commodore	EK-P2F-FVC
		black ingo	EK-P2F-FNI
	 55 x 55 mm (2)	malè white	EK-P2H-FBM
		beige luxor	EK-P2H-FBL
		beaver ottawa	EK-P2H-FCO
		cocoa orinoco	EK-P2H-FCC
		grey efeso	EK-P2H-FGE
		grey london	EK-P2H-FGL
FF - 71	 55 x 55 mm (2)	grey bromine	EK-P2H-FGB
		green commodore	EK-P2H-FVC
		black ingo	EK-P2H-FNI

## FENIX NTM®

Series	Window	Colour	Code
FF - 71	 55 x 55 mm (1) 60 x 60 mm (1)	malè white	EK-P2G-FBM
		beige luxor	EK-P2G-FBL
		beaver ottawa	EK-P2G-FCO
		cocoa orinoco	EK-P2G-FCC
		grey efeso	EK-P2G-FGE
		grey london	EK-P2G-FGL
	 55 x 55 mm (1) 60 x 60 mm (1)	grey bromine	EK-P2G-FGB
		green commodore	EK-P2G-FVC
		black ingo	EK-P2G-FNI
		malè white	EK-P2S-FBM
		beige luxor	EK-P2S-FBL
		beaver ottawa	EK-P2S-FCO
FF - 71	 60 x 60 mm (2)	cocoa orinoco	EK-P2S-FCC
		grey efeso	EK-P2S-FGE
		grey london	EK-P2S-FGL
		grey bromine	EK-P2S-FGB
		green commodore	EK-P2S-FVC
		black ingo	EK-P2S-FNI
	 60 x 60 mm (2) swiss market	malè white	EK-P2H-FBM
		beige luxor	EK-P2H-FBL
		beaver ottawa	EK-P2H-FCO
		cocoa orinoco	EK-P2H-FCC
		grey efeso	EK-P2H-FGE
		grey london	EK-P2H-FGL
FF - 71	 60 x 60 mm (2) swiss market	grey bromine	EK-P2H-FGB
		green commodore	EK-P2H-FVC
		black ingo	EK-P2H-FNI

# How to order a Deep plate

WALL-MOUNT DEVICES

Deep plates for devices of Signum, 20venti and 71 series. The ordering code of a Deep plate consists of a fixed part (EK-D) and a variable part depending on shape (square or rectangular), window size (small or large), material, colour and finishing.

# Deep square plate

WALL-MOUNT DEVICES

## PLASTIC MATERIAL

Series	Window	Colour	Finishing	Code
20venti FF 71	45 x 45 mm	white	normal	EK-DQP-GAA
		ice white	soft-touch *	EK-DQP-GAB
		fire white	normal *	EK-DQP-GAC
			soft-touch *	EK-DQP-GAD
		intense black RAL 9005	normal	EK-DQP-GAE
			soft-touch *	EK-DQP-GAF
		silver	normal	EK-DQP-GAG
		hematite	normal *	EK-DQP-GAI
		graphite	normal *	EK-DQP-GAL
		white	normal	EK-DQG-GAA
		ice white	soft-touch *	EK-DQG-GAB
		fire white	normal *	EK-DQG-GAC
		soft-touch *	EK-DQG-GAD	
	intense black RAL 9005	normal	EK-DQG-GAE	
		soft-touch *	EK-DQG-GAF	
	silver	normal	EK-DQG-GAG	
	hematite	normal *	EK-DQG-GAI	
	graphite	normal *	EK-DQG-GAL	
	white	normal	EK-DQS-GAA	
	ice white	soft-touch *	EK-DQS-GAB	
	fire white	normal *	EK-DQS-GAC	
		soft-touch *	EK-DQS-GAD	
	intense black RAL 9005	normal	EK-DQS-GAE	
		soft-touch *	EK-DQS-GAF	
	silver	normal	EK-DQS-GAG	
	hematite	normal *	EK-DQS-GAI	
	graphite	normal *	EK-DQS-GAL	

\*) Version on request

## METAL

Series	Window	Colour	Finishing	Code
Signum	30 x 60 mm	aluminium		EK-DQV-GBQ
		nickel		EK-DQV-GBR
		titanium		EK-DQV-GBS
		carbon		EK-DQV-GBU
		brass		EK-DQV-GBB
20venti (4 rockers)	30 x 60 mm	aluminium		EK-DQT-GBQ
		nickel		EK-DQT-GBR
		titanium		EK-DQT-GBS
		carbon		EK-DQT-GBU
		brass		EK-DQT-GBB
20venti FF 71	45 x 45 mm	aluminium	brushed	EK-DQG-GBQ
		nickel		EK-DQG-GBR
		titanium		EK-DQG-GBS
		carbon		EK-DQG-GBU
		brass		EK-DQG-GBB
	55 x 55 mm	aluminium		EK-DQG-GBQ
		nickel		EK-DQG-GBR
		titanium		EK-DQG-GBS
		carbon		EK-DQG-GBU
		brass		EK-DQG-GBB
60 x 60 mm	aluminium	EK-DQS-GBQ		
	nickel	EK-DQS-GBR		
	titanium	EK-DQS-GBS		
	carbon	EK-DQS-GBU		
	brass	EK-DQS-GBB		
Movement sensor	50 x 50 mm	aluminium		EK-DQN-GBQ
		nickel		EK-DQN-GBR
		titanium		EK-DQN-GBS
		carbon		EK-DQN-GBU
		brass		EK-DQN-GBB

## METAL HT

Series	Window	Colour	Finishing	Code
Signum	30 x 60 mm	Chrome		EK-DQV-CRO
		Black Metal		EK-DQV-CBM
		Copper		EK-DQV-COP
		Champagne		EK-DQV-CHA
20venti (4 rockers)	30 x 60 mm	Chrome		EK-DQT-CRO
		Black Metal		EK-DQT-CBM
		Copper		EK-DQT-COP
		Champagne		EK-DQT-CHA
20venti FF 71	45 x 45 mm	Chrome	chrome plated	EK-DQP-CRO
		Black Metal		EK-DQP-CBM
		Copper		EK-DQP-COP
		Champagne		EK-DQP-CHA
55 x 55 mm	Chrome	EK-DQG-CRO		
	Black Metal	EK-DQG-CBM		
	Copper	EK-DQG-COP		
	Champagne	EK-DQG-CHA		
60 x 60 mm	Chrome	EK-DQS-CRO		
	Black Metal	EK-DQS-CBM		
	Copper	EK-DQS-COP		
	Champagne	EK-DQS-CHA		

# Deep square plate

WALL-MOUNT DEVICES

## FENIX NTM®

Series	Window	Colour	Code	
Signum	30 x 60 mm	malè white	EK-DQV-FBM	
		beige luxor	EK-DQV-FBL	
		beaver ottawa	EK-DQV-FCO	
		cocoa orinoco	EK-DQV-FCC	
		grey efeso	EK-DQV-FGE	
		grey london	EK-DQV-FGL	
		grey bromine	EK-DQV-FGB	
		green commodore	EK-DQV-FVC	
		black ingo	EK-DQV-FNI	
	20venti (4 rockers)	30 x 60 mm	malè white	EK-DQT-FBM
			beige luxor	EK-DQT-FBL
			beaver ottawa	EK-DQT-FCO
cocoa orinoco			EK-DQT-FCC	
grey efeso			EK-DQT-FGE	
grey london			EK-DQT-FGL	
	grey bromine	EK-DQT-FGB		
	green commodore	EK-DQT-FVC		
	black ingo	EK-DQT-FNI		
20venti FF 71	45 x 45 mm	malè white	EK-DQP-FBM	
		beige luxor	EK-DQP-FBL	
		beaver ottawa	EK-DQP-FCO	
		cocoa orinoco	EK-DQP-FCC	
		grey efeso	EK-DQP-FGE	
		grey london	EK-DQP-FGL	
		grey bromine	EK-DQP-FGB	
		green commodore	EK-DQP-FVC	
		black ingo	EK-DQP-FNI	
	55 x 55 mm	malè white	EK-DQG-FBM	
		beige luxor	EK-DQG-FBL	
		beaver ottawa	EK-DQG-FCO	
cocoa orinoco		EK-DQG-FCC		
grey efeso		EK-DQG-FGE		
grey london		EK-DQG-FGL		
	grey bromine	EK-DQG-FGB		
	green commodore	EK-DQG-FVC		
	black ingo	EK-DQG-FNI		
Movement sensor	50 x 50 mm	malè white	EK-DQN-FBM	
		beige luxor	EK-DQN-FBL	
		beaver ottawa	EK-DQN-FCO	
		cocoa orinoco	EK-DQN-FCC	
		grey efeso	EK-DQN-FGE	
		grey london	EK-DQN-FGL	
	grey bromine	EK-DQN-FGB		
	green commodore	EK-DQN-FVC		
	black ingo	EK-DQN-FNI		

# Deep rectangular plate

WALL-MOUNT DEVICES

## PLASTIC MATERIAL

Series	Window	Colour	Finishing	Code
20venti FF 71	 68 x 45 mm	white	normal	EK-DRG-GAA
		ice white	soft-touch *	EK-DRG-GAB
		fire white	normal *	EK-DRG-GAC
			soft-touch *	EK-DRG-GAD
		intense black RAL 9005	normal	EK-DRG-GAE
			soft-touch *	EK-DRG-GAF
	 60 x 60 mm	silver	normal	EK-DRG-GAG
		hematite	normal *	EK-DRG-GAI
		graphite	normal *	EK-DRG-GAL
		white	normal	EK-DRS-GAA
		ice white	soft-touch *	EK-DRS-GAB
		fire white	normal *	EK-DRS-GAC
		soft-touch *	EK-DRS-GAD	
	 60 x 60 mm	intense black RAL 9005	normal	EK-DRS-GAE
			soft-touch *	EK-DRS-GAF
		silver	normal	EK-DRS-GAG
		hematite	normal *	EK-DRS-GAI
		graphite	normal *	EK-DRS-GAL

\*) Version on request

## METAL

Series	Window	Colour	Finishing	Code
20venti FF 71	 68 x 45 mm	aluminium	brushed	EK-DRG-GBQ
		nickel		EK-DRG-GBR
		titanium		EK-DRG-GBS
		carbon		EK-DRG-GBU
		brass		EK-DRG-GBB
				EK-DRS-GBQ
	 60 x 60 mm	aluminium	EK-DRS-GBQ	
		nickel	EK-DRS-GBR	
		titanium	EK-DRS-GBS	
		carbon	EK-DRS-GBU	
		brass	EK-DRS-GBB	

## FENIX NTM®

Series	Window	Colour	Code
20venti FF 71	 68 x 45 mm	malè white	EK-DRG-FBM
		beige luxor	EK-DRG-FBL
		beaver ottawa	EK-DRG-FCO
		cocoa orinoco	EK-DRG-FCC
		grey efeso	EK-DRG-FGE
		grey london	EK-DRG-FGL
	 60 x 60 mm	grey bromine	EK-DRG-FGB
		green commodore	EK-DRG-FVC
		black ingo	EK-DRG-FNI
		malè white	EK-DRS-FBM
		beige luxor	EK-DRS-FBL
		beaver ottawa	EK-DRS-FCO
	 60 x 60 mm	cocoa orinoco	EK-DRS-FCC
		grey efeso	EK-DRS-FGE
		grey london	EK-DRS-FGL
		grey bromine	EK-DRS-FGB
		green commodore	EK-DRS-FVC
		black ingo	EK-DRS-FNI

## METAL HT

Series	Window	Colour	Finishing	Code
20venti FF 71	 68 x 45 mm	Chrome	chrome plated	EK-DRG-CRO
		Black Metal		EK-DRG-CBM
		Copper		EK-DRG-COP
		Champagne		EK-DRG-CHA
		Chrome		EK-DRS-CRO
		Black Metal		EK-DRS-CBM
	 60 x 60 mm	Copper	EK-DRS-COP	
		Champagne	EK-DRS-CHA	

## PLASTIC MATERIAL

Series	Window	Colour	Finishing	Code
20venti FF 71	 55 x 55 mm (2)	white	normal	EK-D2P-GAA
		ice white	soft-touch *	EK-D2P-GAB
		fire white	normal *	EK-D2P-GAC
			soft-touch *	EK-D2P-GAD
		intense black RAL 9005	normal	EK-D2P-GAE
			soft-touch *	EK-D2P-GAF
	 45 x 45 mm (1) 60 x 60 mm (1)	silver	normal	EK-D2P-GAG
		hematite	normal *	EK-D2P-GAI
		graphite	normal *	EK-D2P-GAL
		white	normal	EK-D2F-GAA
		ice white	soft-touch *	EK-D2F-GAB
		fire white	normal *	EK-D2F-GAC
	 45 x 45 mm (1) 60 x 60 mm (1)		soft-touch *	EK-D2F-GAD
		intense black RAL 9005	normal	EK-D2F-GAE
			soft-touch *	EK-D2F-GAF
		silver	normal	EK-D2F-GAG
		hematite	normal *	EK-D2F-GAI
		graphite	normal *	EK-D2F-GAL
20venti FF 71	 55 x 55 mm (1) 60 x 60 mm (1)	white	normal	EK-D2G-GAA
		ice white	soft-touch *	EK-D2G-GAB
		fire white	normal *	EK-D2G-GAC
			soft-touch *	EK-D2G-GAD
		intense black RAL 9005	normal	EK-D2G-GAE
			soft-touch *	EK-D2G-GAF
	 60 x 60 mm (2)	silver	normal	EK-D2G-GAG
		hematite	normal *	EK-D2G-GAI
		graphite	normal *	EK-D2G-GAL
		white	normal	EK-D2S-GAA
		ice white	soft-touch *	EK-D2S-GAB
		fire white	normal *	EK-D2S-GAC
 60 x 60 mm (2)		soft-touch *	EK-D2S-GAD	
	intense black RAL 9005	normal	EK-D2S-GAE	
		soft-touch *	EK-D2S-GAF	
	silver	normal	EK-D2S-GAG	
	hematite	normal *	EK-D2S-GAI	
	graphite	normal *	EK-D2S-GAL	
20venti FF 71	 60 x 60 mm (2) swiss market	white	normal	EK-D2H-GAA
		ice white	soft-touch *	EK-D2H-GAB
		fire white	normal *	EK-D2H-GAC
			soft-touch *	EK-D2H-GAD
		intense black RAL 9005	normal	EK-D2H-GAE
			soft-touch *	EK-D2H-GAF
	 60 x 60 mm (2) swiss market	silver	normal	EK-D2H-GAG
		hematite	normal *	EK-D2H-GAI
		graphite	normal *	EK-D2H-GAL

\*) Version on request

# Deep double plate

WALL-MOUNT DEVICES

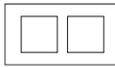
## METAL

Series	Window	Colour	Finishing	Code
FF - 71	 45 x 45 mm (2)	aluminium	brushed	EK-D2E-GBQ
		nickel		EK-D2E-GBR
		titanium		EK-D2E-GBS
		carbon		EK-D2E-GBU
		brass		EK-D2E-GBB
				EK-D2F-GBQ
	 45 x 45 mm (1) 60 x 60 mm (1)	aluminium	EK-D2F-GBQ	
		nickel	EK-D2F-GBR	
		titanium	EK-D2F-GBS	
		carbon	EK-D2F-GBU	
		brass	EK-D2F-GBB	
			EK-D2P-GBQ	
	 55 x 55 mm (2)	aluminium	EK-D2P-GBQ	
		nickel	EK-D2P-GBR	
		titanium	EK-D2P-GBS	
		carbon	EK-D2P-GBU	
		brass	EK-D2P-GBB	
			EK-D2G-GBQ	
 55 x 55 mm (1) 60 x 60 mm (1)	aluminium	EK-D2G-GBQ		
	nickel	EK-D2G-GBR		
	titanium	EK-D2G-GBS		
	carbon	EK-D2G-GBU		
	brass	EK-D2G-GBB		
		EK-D2S-GBQ		
 60 x 60 mm (2)	aluminium	EK-D2S-GBQ		
	nickel	EK-D2S-GBR		
	titanium	EK-D2S-GBS		
	carbon	EK-D2S-GBU		
	brass	EK-D2S-GBB		
		EK-D2H-GBQ		
 60 x 60 mm (2) swiss market	aluminium	EK-D2H-GBQ		
	nickel	EK-D2H-GBR		
	titanium	EK-D2H-GBS		
	carbon	EK-D2H-GBU		
	brass	EK-D2H-GBB		

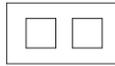
# Deep double plate

WALL-MOUNT DEVICES

## METAL HT

Series	Window	Colour	Finishing	Code
20venti FF 71		Chrome	chrome plated	EK-D2E-CRO
		Black Metal		EK-D2E-CBM
	Copper	EK-D2E-COP		
	Champagne	EK-D2E-CHA		
		Chrome		EK-D2F-CRO
		Black Metal		EK-D2F-CBM
	Copper	EK-D2F-COP		
	Champagne	EK-D2F-CHA		
		Chrome		EK-D2P-CRO
		Black Metal		EK-D2P-CBM
	Copper	EK-D2P-COP		
	Champagne	EK-D2P-CHA		
		Chrome		EK-D2G-CRO
		Black Metal		EK-D2G-CBM
Copper	EK-D2G-COP			
Champagne	EK-D2G-CHA			
	Chrome	EK-D2S-CRO		
	Black Metal	EK-D2S-CBM		
Copper	EK-D2S-COP			
Champagne	EK-D2S-CHA			
	Chrome	EK-D2H-CRO		
	Black Metal	EK-D2H-CBM		
Copper	EK-D2H-COP			
Champagne	EK-D2H-CHA			
	Chrome	EK-D2H-CRO		
	Black Metal	EK-D2H-CBM		
Copper	EK-D2H-COP			
Champagne	EK-D2H-CHA			

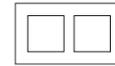
## FENIX NTM®

Series	Window	Colour	Code
20venti FF 71		malè white	EK-D2E-FBM
		beige luxor	EK-D2E-FBL
	beaver ottawa	EK-D2E-FCO	
	cocoa orinoco	EK-D2E-FCC	
	grey efeso	EK-D2E-FGE	
	grey london	EK-D2E-FGL	
	grey bromine	EK-D2E-FGB	
	green commodore	EK-D2E-FVC	
	black ingo	EK-D2E-FNI	
	malè white	EK-D2F-FBM	
	beige luxor	EK-D2F-FBL	
	beaver ottawa	EK-D2F-FCO	
	cocoa orinoco	EK-D2F-FCC	
	grey efeso	EK-D2F-FGE	
grey london	EK-D2F-FGL		
grey bromine	EK-D2F-FGB		
green commodore	EK-D2F-FVC		
black ingo	EK-D2F-FNI		
20venti FF 71		malè white	EK-D2P-FBM
		beige luxor	EK-D2P-FBL
	beaver ottawa	EK-D2P-FCO	
	cocoa orinoco	EK-D2P-FCC	
	grey efeso	EK-D2P-FGE	
	grey london	EK-D2P-FGL	
	grey bromine	EK-D2P-FGB	
	green commodore	EK-D2P-FVC	
	black ingo	EK-D2P-FNI	
	malè white	EK-D2G-FBM	
	beige luxor	EK-D2G-FBL	
	beaver ottawa	EK-D2G-FCO	
	cocoa orinoco	EK-D2G-FCC	
	grey efeso	EK-D2G-FGE	
grey london	EK-D2G-FGL		
grey bromine	EK-D2G-FGB		
green commodore	EK-D2G-FVC		
black ingo	EK-D2G-FNI		
20venti FF 71		malè white	EK-D2S-FBM
		beige luxor	EK-D2S-FBL
	beaver ottawa	EK-D2S-FCO	
	cocoa orinoco	EK-D2S-FCC	
	grey efeso	EK-D2S-FGE	
	grey london	EK-D2S-FGL	
	grey bromine	EK-D2S-FGB	
	green commodore	EK-D2S-FVC	
	black ingo	EK-D2S-FNI	
	malè white	EK-D2H-FBM	
	beige luxor	EK-D2H-FBL	
	beaver ottawa	EK-D2H-FCO	
	cocoa orinoco	EK-D2H-FCC	
	grey efeso	EK-D2H-FGE	
grey london	EK-D2H-FGL		
grey bromine	EK-D2H-FGB		
green commodore	EK-D2H-FVC		
black ingo	EK-D2H-FNI		
20venti FF 71		malè white	EK-D2S-FBM
		beige luxor	EK-D2S-FBL
	beaver ottawa	EK-D2S-FCO	
	cocoa orinoco	EK-D2S-FCC	
	grey efeso	EK-D2S-FGE	
	grey london	EK-D2S-FGL	
	grey bromine	EK-D2S-FGB	
	green commodore	EK-D2S-FVC	
	black ingo	EK-D2S-FNI	
	malè white	EK-D2H-FBM	
	beige luxor	EK-D2H-FBL	
	beaver ottawa	EK-D2H-FCO	
	cocoa orinoco	EK-D2H-FCC	
	grey efeso	EK-D2H-FGE	
grey london	EK-D2H-FGL		
grey bromine	EK-D2H-FGB		
green commodore	EK-D2H-FVC		
black ingo	EK-D2H-FNI		
20venti FF 71		malè white	EK-D2H-FBM
		beige luxor	EK-D2H-FBL
	beaver ottawa	EK-D2H-FCO	
	cocoa orinoco	EK-D2H-FCC	
	grey efeso	EK-D2H-FGE	
	grey london	EK-D2H-FGL	
	grey bromine	EK-D2H-FGB	
	green commodore	EK-D2H-FVC	
	black ingo	EK-D2H-FNI	

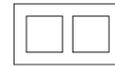
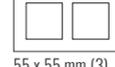
# Deep triple plate

WALL-MOUNT DEVICES

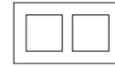
## FENIX NTM®

Series	Window	Colour	Code
20venti FF 71		malè white	EK-D3P-FBM
		beige luxor	EK-D3P-FBL
	beaver ottawa	EK-D3P-FCO	
	cocoa orinoco	EK-D3P-FCC	
	grey efeso	EK-D3P-FGE	
	grey london	EK-D3P-FGL	
	grey bromine	EK-D3P-FGB	
	green commodore	EK-D3P-FVC	
	black ingo	EK-D3P-FNI	
	malè white	EK-D3S-FBM	
	beige luxor	EK-D3S-FBL	
	beaver ottawa	EK-D3S-FCO	
	cocoa orinoco	EK-D3S-FCC	
	grey efeso	EK-D3S-FGE	
grey london	EK-D3S-FGL		
grey bromine	EK-D3S-FGB		
green commodore	EK-D3S-FVC		
black ingo	EK-D3S-FNI		

## ALUMINIUM

Series	Window	Colour	Finishing	Code
20venti FF 71		aluminium	brushed	EK-D3P-GBQ
		nickel		EK-D3P-GBR
	titanium	EK-D3P-GBS		
	carbon	EK-D3P-GBU		
		brass		EK-D3P-GBB
		aluminium		EK-D3S-GBQ
		nickel		EK-D3S-GBR
		titanium		EK-D3S-GBS
		carbon		EK-D3S-GBU
		brass		EK-D3S-GBB

## METAL HT

Series	Window	Colour	Finishing	Code
20venti FF 71		Chrome	chrome plated	EK-D3P-CRO
		Black Metal		EK-D3P-CBM
	Copper	EK-D3P-COP		
	Champagne	EK-D3P-CHA		
		Chrome		EK-D3S-CRO
		Black Metal		EK-D3S-CBM
		Copper		EK-D3S-COP
		Champagne		EK-D3S-CHA

## How to order a Surface plate

WALL-MOUNT DEVICES

**Surface plates for devices of 20venti, 71 series and flush-mounting inserts.** The ordering code of a Surface plate consists of a fixed part (EK-S) and a variable part depending on shape (square or rectangular), window size (small or large), material, colour and finishing.

## Surface square plate

WALL-MOUNT DEVICES

### METAL

Series	Window	Colour	Finishing	Code
20venti (4 rockers)		aluminium		EK-SQT-GBQ
		nickel		EK-SQT-GBR
		titanium		EK-SQT-GBS
		carbon		EK-SQT-GBU
		brass		EK-SQT-GBB
		aluminium		EK-SQP-GBQ
		nickel		EK-SQP-GBR
		titanium		EK-SQP-GBS
		carbon		EK-SQP-GBU
		brass		EK-SQP-GBB
20venti FF 71		aluminium	brushed	EK-SQG-GBQ
		nickel		EK-SQG-GBR
		titanium		EK-SQG-GBS
		carbon		EK-SQG-GBU
		brass		EK-SQG-GBB
		aluminium		EK-SQS-GBQ
		nickel		EK-SQS-GBR
		titanium		EK-SQS-GBS
		carbon		EK-SQS-GBU
		brass		EK-SQS-GBB
Movement sensor		aluminium		EK-SQN-GBQ
		nickel		EK-SQN-GBR
		titanium		EK-SQN-GBS
		carbon		EK-SQN-GBU
		brass		EK-SQN-GBB

### METAL HT

Series	Window	Colour	Finishing	Code
20venti (4 tasti)		Chrome		EK-SQT-CRO
		Black Metal		EK-SQT-CBM
		Copper		EK-SQT-COP
		Champagne		EK-SQT-CHA
				EK-SQP-CRO
		Chrome	chrome plated	EK-SQP-CRO
		Black Metal		EK-SQP-CBM
		Copper		EK-SQP-COP
		Champagne		EK-SQP-CHA
				EK-SQG-CRO
20venti FF 71		Chrome		EK-SQG-CRO
		Black Metal		EK-SQG-CBM
		Copper		EK-SQG-COP
		Champagne		EK-SQG-CHA
				EK-SQS-CRO
		Chrome		EK-SQS-CRO
		Black Metal		EK-SQS-CBM
		Copper		EK-SQS-COP
		Champagne		EK-SQS-CHA
				EK-SQS-CHA

## Surface square plate

WALL-MOUNT DEVICES

### FENIX NTM®

Series	Window	Colour	Code
20venti (4 rockers)		malè white	EK-SQT-FBM
		beige luxor	EK-SQT-FBL
		beaver ottawa	EK-SQT-FCO
		cocoa orinoco	EK-SQT-FCC
		grey efeso	EK-SQT-FGE
		grey london	EK-SQT-FGL
		grey bromine	EK-SQT-FGB
		green commodore	EK-SQT-FVC
		black ingo	EK-SQT-FNI
		malè white	EK-SQP-FBM
		beige luxor	EK-SQP-FBL
		beaver ottawa	EK-SQP-FCO
		cocoa orinoco	EK-SQP-FCC
		grey efeso	EK-SQP-FGE
		grey london	EK-SQP-FGL
grey bromine	EK-SQP-FGB		
green commodore	EK-SQP-FVC		
black ingo	EK-SQP-FNI		
20venti FF 71		malè white	EK-SQG-FBM
		beige luxor	EK-SQG-FBL
		beaver ottawa	EK-SQG-FCO
		cocoa orinoco	EK-SQG-FCC
		grey efeso	EK-SQG-FGE
		grey london	EK-SQG-FGL
		grey bromine	EK-SQG-FGB
		green commodore	EK-SQG-FVC
		black ingo	EK-SQG-FNI
		malè white	EK-SQS-FBM
		beige luxor	EK-SQS-FBL
		beaver ottawa	EK-SQS-FCO
		cocoa orinoco	EK-SQS-FCC
		grey efeso	EK-SQS-FGE
		grey london	EK-SQS-FGL
grey bromine	EK-SQS-FGB		
green commodore	EK-SQS-FVC		
black ingo	EK-SQS-FNI		
Movement sensor		malè white	EK-SQN-FBM
		beige luxor	EK-SQN-FBL
		beaver ottawa	EK-SQN-FCO
		cocoa orinoco	EK-SQN-FCC
		grey efeso	EK-SQN-FGE
		grey london	EK-SQN-FGL
		grey bromine	EK-SQN-FGB
		green commodore	EK-SQN-FVC
		black ingo	EK-SQN-FNI
		malè white	EK-SQN-FBM
		beige luxor	EK-SQN-FBL
		beaver ottawa	EK-SQN-FCO
		cocoa orinoco	EK-SQN-FCC
		grey efeso	EK-SQN-FGE
		grey london	EK-SQN-FGL
grey bromine	EK-SQN-FGB		
green commodore	EK-SQN-FVC		
black ingo	EK-SQN-FNI		

## Surface rectangular plate

WALL-MOUNT DEVICES

### FENIX NTM®

Series	Window	Colour	Code
20venti FF 71		malè white	EK-SRG-FBM
		beige luxor	EK-SRG-FBL
		beaver ottawa	EK-SRG-FCO
		cocoa orinoco	EK-SRG-FCC
		grey efeso	EK-SRG-FGE
		grey london	EK-SRG-FGL
		grey bromine	EK-SRG-FGB
		green commodore	EK-SRG-FVC
		black ingo	EK-SRG-FVC
		malè white	EK-SRS-FBM
		beige luxor	EK-SRS-FBL
		beaver ottawa	EK-SRS-FCO
		cocoa orinoco	EK-SRS-FCC
		grey efeso	EK-SRS-FGE
		grey london	EK-SRS-FGL
grey bromine	EK-SRS-FGB		
green commodore	EK-SRS-FVC		
black ingo	EK-SRS-FVC		

### METAL

Series	Window	Colour	Finishing	Code
20venti FF 71		aluminium	brushed	EK-SRG-GBQ
		nickel		EK-SRG-GBR
		titanium		EK-SRG-GBS
		carbon		EK-SRG-GBU
		brass		EK-SRG-GBB
		aluminium		EK-SRS-GBQ
		nickel		EK-SRS-GBR
		titanium		EK-SRS-GBS
		carbon		EK-SRS-GBU
		brass		EK-SRS-GBB

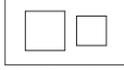
### METAL HT

Series	Window	Colour	Finishing	Code
20venti FF 71		Chrome	chrome plated	EK-SRG-CRO
		Black Metal		EK-SRG-CBM
		Copper		EK-SRG-COP
		Champagne		EK-SRG-CHA
				EK-SRS-CRO
		Chrome		EK-SRS-CRO
		Black Metal		EK-SRS-CBM
		Copper		EK-SRS-COP
		Champagne		EK-SRS-CHA
				EK-SRS-CHA

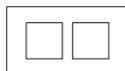
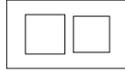
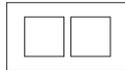
## Surface double plate

WALL-MOUNT DEVICES

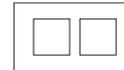
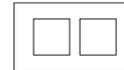
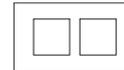
### METAL

Series	Window	Colour	Finishing	Code
20venti FF 71	 45 x 45 mm (2)	aluminium	brushed	EK-S2E-GBQ
		nickel		EK-S2E-GBR
		titanium		EK-S2E-GBS
		carbon		EK-S2E-GBU
		brass		EK-S2E-GBB
		aluminium		EK-S2F-GBQ
	 45 x 45 mm (1) 60 x 60 mm (1)	nickel	EK-S2F-GBR	
		titanium	EK-S2F-GBS	
		carbon	EK-S2F-GBU	
		brass	EK-S2F-GBB	
		aluminium	EK-S2P-GBQ	
		nickel	EK-S2P-GBR	
	 55 x 55 mm (2)	titanium	EK-S2P-GBS	
		carbon	EK-S2P-GBU	
		brass	EK-S2P-GBB	
		aluminium	EK-S2G-GBQ	
		nickel	EK-S2G-GBR	
		titanium	EK-S2G-GBS	
 55 x 55 mm (1) 60 x 60 mm (1)	carbon	EK-S2G-GBU		
	brass	EK-S2G-GBB		
	aluminium	EK-S2S-GBQ		
	nickel	EK-S2S-GBR		
	titanium	EK-S2S-GBS		
	carbon	EK-S2S-GBU		
 60 x 60 mm (2)	carbon	EK-S2S-GBU		
	brass	EK-S2S-GBB		

### METAL HT

Series	Window	Colour	Finishing	Code
20venti FF 71	 45 x 45 mm (2)	Chrome	chrome plated	EK-S2E-CRO
		Black Metal		EK-S2E-CBM
		Copper		EK-S2E-COP
		Champagne		EK-S2E-CHA
	 45 x 45 mm (1) 60 x 60 mm (1)	Chrome	EK-S2F-CRO	
		Black Metal	EK-S2F-CBM	
		Copper	EK-S2F-COP	
		Champagne	EK-S2F-GBB	
	 55 x 55 mm (2)	Chrome	EK-S2P-CRO	
		Black Metal	EK-S2P-CBM	
		Copper	EK-S2P-COP	
		Champagne	EK-S2P-CHA	
	 55 x 55 mm (1) 60 x 60 mm (1)	Chrome	EK-S2G-CRO	
		Black Metal	EK-S2G-CBM	
		Copper	EK-S2G-COP	
		Champagne	EK-S2G-CHA	
	 60 x 60 mm (2)	Chrome	EK-S2S-CRO	
		Black Metal	EK-S2S-CBM	
Copper		EK-S2S-COP		
Champagne		EK-S2S-GBB		

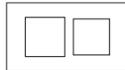
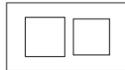
### FENIX NTM®

Series	Window	Colour	Code
20venti FF 71	 45 x 45 mm (2)	malè white	EK-S2E-FBM
		beige luxor	EK-S2E-FBL
		beaver ottawa	EK-S2E-FCO
		cocoa orinoco	EK-S2E-FCC
		grey efeso	EK-S2E-FGE
		grey london	EK-S2E-FGL
	 45 x 45 mm (1) 60 x 60 mm (1)	grey bromine	EK-S2E-FGB
		green commodore	EK-S2E-FVC
		black ingo	EK-S2E-FNI
		malè white	EK-S2F-FBM
		beige luxor	EK-S2F-FBL
		beaver ottawa	EK-S2F-FCO
	 55 x 55 mm (2)	cocoa orinoco	EK-S2F-FCC
		grey efeso	EK-S2F-FGE
		grey london	EK-S2F-FGL
		grey bromine	EK-S2F-FGB
		green commodore	EK-S2F-FVC
		black ingo	EK-S2F-FNI
 55 x 55 mm (2)	malè white	EK-S2P-FBM	
	beige luxor	EK-S2P-FBL	
	beaver ottawa	EK-S2P-FCO	
	cocoa orinoco	EK-S2P-FCC	
	grey efeso	EK-S2P-FGE	
	grey london	EK-S2P-FGL	
 55 x 55 mm (2)	grey bromine	EK-S2P-FGB	
	green commodore	EK-S2P-FVC	
	black ingo	EK-S2P-FNI	

## Surface double plate

WALL-MOUNT DEVICES

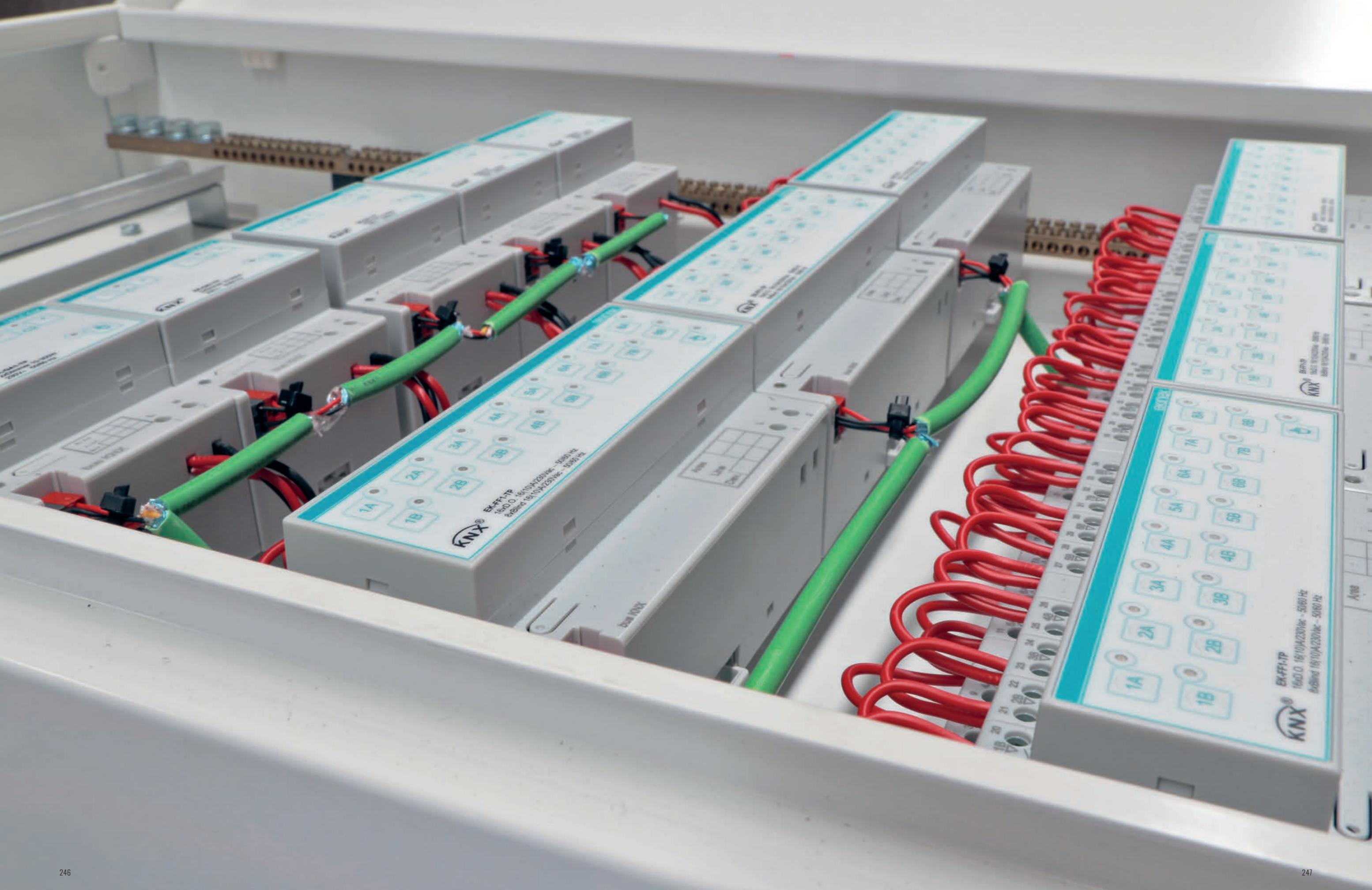
### FENIX NTM®

Series	Window	Colour	Code
20venti FF 71	 55 x 55 mm (1) 60 x 60 mm (1)	malè white	EK-S2G-FBM
		beige luxor	EK-S2G-FBL
		beaver ottawa	EK-S2G-FCO
		cocoa orinoco	EK-S2G-FCC
		grey efeso	EK-S2G-FGE
		grey london	EK-S2G-FGL
	 55 x 55 mm (1) 60 x 60 mm (1)	grey bromine	EK-S2G-FGB
		green commodore	EK-S2G-FVC
		black ingo	EK-S2G-FNI
		malè white	EK-S2S-FBM
		beige luxor	EK-S2S-FBL
		beaver ottawa	EK-S2S-FCO
	 60 x 60 mm (2)	cocoa orinoco	EK-S2S-FCC
		grey efeso	EK-S2S-FGE
		grey london	EK-S2S-FGL
		grey bromine	EK-S2S-FGB
		green commodore	EK-S2S-FVC
		black ingo	EK-S2S-FNI



## DIN-RAIL MOUNT MODULES

Power supplies	249
System devices	250
Universal interface	256
Inputs	264
Actuators	266
I/O Modules	271
Dimmers	274
Thermal regulation and PLC	284
Gateway	292
Metering	303



# Power supply units

DIN-RAIL MOUNT MODULES

EK-AB1-TP  
640 mA bus power supply

EK-AG1-TP  
640 mA bus power supply with 30 Vdc auxiliary output

EK-AM1-TP  
1280 mA bus power supply



Max. number of KNX devices that can be connected on KNX bus supply line	64	64	256
Reset of the connected bus line through pushbutton	•	•	•
LED for output voltage on KNX bus	•	•	•
LED for overload / short circuit on KNX bus	•	•	•
Integrated decoupling choke	•	•	•
Power supply 230 Vac	•	•	•
Power supply 176 - 280 Vdc	-	-	•
Output for auxiliary power supply 30 Vdc	-	•	•
Mounting on standard 35 mm rail (EN 60715)	•	•	•

# System devices

DIN-RAIL MOUNT MODULES

EK-TM1-TP  
Time / astronomical digital switch

EK-BD1-TP  
USB interface

EK-BA1-TP  
Line / area coupler

EK-IE1-SEC-TP  
IP secure interface

EK-IF1-SEC-TP  
IP secure router



Suppress device configuration on the sub line	-	-	•	•	•
Enable or disable filtering of group messages and suppress device oriented messages	-	-	•	•	•
Trace the traffic on the sub line and reduced number of retransmissions	-	-	•	•	•
Function pushbutton	•	-	•	•	•
Status LED for KNX bus line	-	•	•	•	•
Status LED for Ethernet	-	-	-	•	•
Mounting on standard 35 mm rail (EN 60715)	•	•	•	•	•
Plug in program	•	-	•	•	•
Programming pushbutton	-	•	-	•	•
Connection of a PC or laptop to the KNX bus system	-	-	-	•	•
Secure features	-	-	-	•	•
Time programming (daily, weekly, monthly or yearly) or astronomical	•	-	-	-	-
Control of 9 channels on bus	•	-	-	-	-
Channel 1 can be replicated on the relay on board	•	-	-	-	-
LCD-display	•	-	-	-	-
Backup battery	•	-	-	-	-
Connection of an optional GPS module	•	-	-	-	-



## Description

The Ekinex® 640 mA KNX bus power supply supplies and monitors the 30 Vdc voltage required by the KNX bus for operation. An integrated choke provides for decoupling power supply and bus line. On a bus line powered by a 640 mA power supply unit may be connected a maximum of 64 bus devices. Output is protected from overload and short-circuit. The EK-AG1-TP version is provided with an additional 30 Vdc output can be used as auxiliary power supply for other devices requiring SELV voltage (Safety Extra Low Voltage). The total current provided by the two outputs (KNX bus line and auxiliary power supply) cannot exceed 640 mA. The device supports short network voltage interruptions (max. 200 ms).

## Main features

- Plastic casing
- Connection to bus line with KNX terminal block
- Connection of auxiliary output with dedicated terminal block (only EK-AG1-TP)
- Connection of 230 Vac power supply with screw terminals
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Safety class II
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection grade (installed device)
- Weight 150 g (EK-AB1-TP), 165 g (EK-AG1-TP)

## Order information

Code	Version	Package
EK-AB1-TP		1 pcs.
EK-AG1-TP	with 30 Vdc auxiliary output	

# 640 mA bus power supply

POWER SUPPLY UNITS

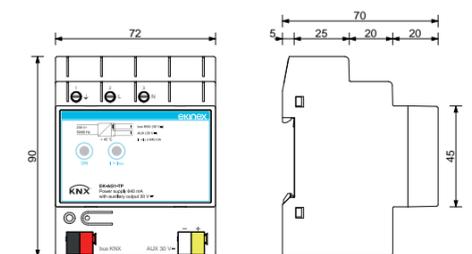
## Technical data

- Input voltage: 230 Vac, 50/60 Hz
- Power absorption 22 W
- Loss < 3 W
- Output voltage (KNX bus): 30 Vdc
- Output voltage (auxiliary output): 30 Vdc (only EK-AG1-TP)
- Nominal current (output total): 640 mA
- Buffer time: 200 ms

## Delivery

Delivery includes one terminal blocks for connection to the bus; the EK-AG1-TP version is delivered with a second terminal block for connection to the auxiliary output.

## Dimensions [mm]



Terminal block for auxiliary output (white/yellow) only on EK-AG1-TP version

## Configuration and commissioning

Not necessary

## Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



EK-AB1-TP EK-AG1-TP



## 1280 mA bus power supply

POWER SUPPLY UNITS

### Description

The Ekinex® EK-AM1-TP power supply produces and monitors the 30 Vdc voltage required for operation of the KNX bus system. A coil integrated in the device decouples the power supply from the bus line. The output has overload and short-circuit protection. It has an additional 30 Vdc output that can be used for auxiliary supply of other SELV devices. The total current provided by the two outputs (KNX bus line and auxiliary power supply) cannot exceed 1280 mA. The device is capable of supporting short mains voltage interruptions (max. 200 ms).

### Main features

- Plastic housing
- Connection to bus line via KNX terminal
- Auxiliary power connection via dedicated screw terminals
- Power supply connection via screw terminals
- Degree of protection IP 20 (device installed)
- Climatic classification 3K5 and mechanical classification 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Safety class I
- Mounting on 35 mm profile rail (according to EN 60715)
- Device with 4 modular units (1 UM = 18 mm)
- Weight 320 g

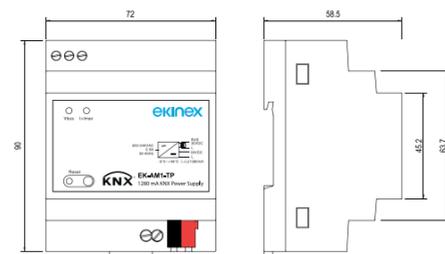
### Technical data

- Supply voltage 230 Vac, 50/60 Hz
- Power consumption 39 W
- Losses < 3 W
- Voltage on bus line: 30 Vdc +1/-2 Vdc SELV
- Voltage on auxiliary output: 30 Vdc
- Nominal current: 1280 mA
- Buffer time: 200 ms

### Delivery

Delivery includes one terminal blocks for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-AM1-TP	1 pcs.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Time / astronomical digital switch

SYSTEM DEVICES

### Description

The EK-TM1-TP electronic digital time switch is a KNX device for the management over time of the electrical devices. It allows time programming (periodicity: daily, weekly or annual) or astronomical programming. The device can pilot 9 different channels on KNX bus. The relay on the device replicates the channel 1 programming. Each channel can be associated with a different programming (time or astronomical). It is possible to connect via bus the EK-GPS-1 module (to be ordered separately), that captures the time and the position through the satellite system, ensuring a greater accuracy over time. The backup battery keeps the settings even in case of power failure and can be replaced through the cover (sealable).

### Main features

- Plastic casing
- LCD with backlight (active only with AC power supply)
- Password lockable keyboard
- 450 storable programs (900 events) divisible on 9 channels
- Daily/weekly/monthly/yearly + astronomical programming
- On/off, pulse, holiday, random, night (astronomical) programmes
- Programming resolution 1 minute
- Actions type 1B
- Automatic update of daylight saving time (configurable)
- Connection to bus line with KNX terminal block
- Screw terminal blocks for connecting 230 Vac, output and GPS module
- Lithium backup battery: 3V, CR14250 type (5-years life, replaceable)
- Reinforced insulation between accessible parts (front) and all the other terminals
- Protection degree IP20 (device installed)
- Mounting on 35 mm standard DIN-rail (according to EN 60715)
- 3 modular units (1 UM = 18 mm)

### Technical data

- Power supply: 115 ÷ 230 Vac (-15% ÷ +10%) 50/60 Hz
- Power consumption: 7 VA (2.6 W)

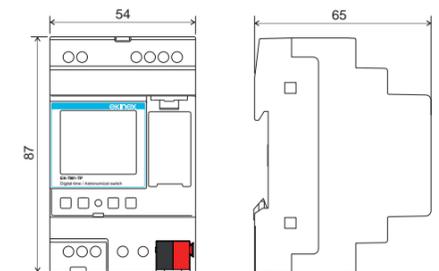
### Output

- 1 monostable switching relay 16(10) A at 250 Vac

### Delivery

Delivery includes a terminal block for connection to the bus. The optional module EK-GPS-1 has to be ordered separately.

### Dimensions [mm]



### Order information

Code	Package
EK-TM1-TP	1 pcs.
EK-GPS-1	



### Configuration and commissioning

By means of ETSS software or later versions  
Application program: **APEKTM1TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



EK-TM1-TP EK-GPS-1



## USB interface

SYSTEM DEVICES

### Description

The Ekinex® USB interface EK-BD1-TP allows a bidirectional data connection between a PC and a KNX bus system. The device handles the addressing, parameter setting, display, protocol management and diagnosis of KNX bus devices. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail.

### Main features

- Plastic casing
- LEDs indicators for data transmission on USB and KNX bus status
- Connection to bus line with KNX terminal block
- Connection to PC with USB type B connector
- Installation on 35 mm rail (according to EN 60715)
- 2 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 100 g

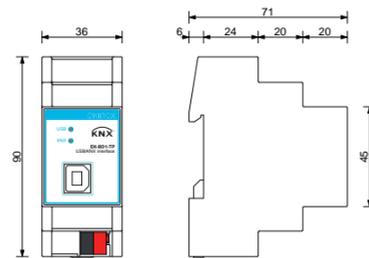
### Technical data

- Power supply (bus side): 30 Vdc SELV, current consumption: max. 10 mA
- Power supply (PC side): from USB, current consumption: max. 20 mA

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



## Line / area coupler

SYSTEM DEVICES

### Description

The Ekinex® line / area coupler EK-BA1-TP can be used as a line coupler to connect a secondary line to a main line, as an area coupler to connect a main line to a backbone line or as a repeater. The device assures galvanic insulation between the two connected lines and filters the traffic based on installation position or on filter tables in case of group-oriented communications. The frontal LEDs indicate the status of each bus line and facilitate the tracing of communication problems due to bus load or to re-transmission on both lines. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- LEDs indicators for status of KNX bus lines
- Pushbutton for activating special functions
- Connection to bus lines with KNX terminal blocks
- Installation on 35 mm rail (according to EN 60715)
- 2 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 100 g

### Technical data

- 30 Vdc power supply by KNX bus
- Current consumption (from main bus line) ca.10 mA

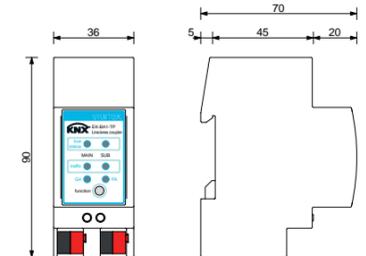
### Functions

- Suppress device configuration on the sub line
- Enable or disable filtering of group messages
- Suppress device oriented messages
- Trace the traffic on the sub line
- Reduced number of retransmissions

### Delivery

Delivery includes two terminal blocks for connection to the bus lines.

### Dimensions [mm]



### Order information

Code	Package
EK-BD1-TP	1 pcs.



### Configuration and commissioning

Not necessary; the application program **APEKBD1TP#.#.vd4** (download from [www.ekinex.com](http://www.ekinex.com)) is available for an ETS project.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Order information

Code	Package
EK-BA1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKBA1TP#.#.vd4** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## IP secure interface

SYSTEM DEVICES

### Description

The Ekinex® EK-IE1-SEC-TP IP interface realises a bidirectional data connection between a PC or laptop and a KNX bus system via a LAN network. The IP interface supports the tunnelling protocol and allows addressing, parameter setting, visualisation, protocolling and diagnosis of KNX bus devices via ETS. The device has an integrated KNX bus communication module and is designed for mounting on a 35 mm profile rail. The power supply is supplied via the KNX bus. As a secure interface, the device prevents unauthorised access to the system.

### Main features

- Plastic housing
- Programming button and LED on the front panel
- LEDs for status and data traffic indication on bus line and Ethernet network
- Buttons for activating special functions
- Connection to bus line via KNX terminal
- Connection to Ethernet network via RJ45 connector
- Mounting on 35 mm profile rail (in accordance with EN 60715)
- Device from 1 modular unit (1 UM = 18 mm)
- IP20 degree of protection (device installed)
- Support of KNX secure technology, can be activated via ETS®.

### Technical data

- Power supplied via KNX bus (21-30 Vdc)
- Current consumption 20 mA from KNX bus
- Up to 8 KNXnet/IP connections simultaneously
- Operating temperature: - 5 ... + 45°C
- Relative humidity: 5-93% non-condensing

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-IE1-SEC-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application programs **APEKIE1SECTP##.knxprod** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## IP secure router

SYSTEM DEVICES

### Description

The Ekinex® EK-IF1-SEC-TP IP router realises a bi-directional data connection between a PC or laptop and a KNX bus system via a LAN. The IP interface supports the tunnelling protocol and allows addressing, parameter setting, visualisation, protocolling and diagnosis of KNX bus devices via ETS. A line/area coupler function is also integrated in the IP router; telegrams can be exchanged between KNX TP bus lines via the device via a backbone over TCP/IP. The device has an integrated KNX bus communication module and is designed for 35 mm profile rail mounting. The power supply is supplied via the KNX bus.

### Main features

- Plastic housing
- Programming button and LED on the front
- LEDs for status and data traffic signalling on bus line and Ethernet network
- Buttons for activating special functions
- Connection to bus line via KNX terminal
- Connection to Ethernet network via RJ45 connector
- Mounting on 35 mm profile rail (in accordance with EN 60715)
- Device from 1 modular unit (1 UM = 18 mm)
- IP20 degree of protection (device installed)
- Support of KNX secure technology, can be activated via ETS®
- KNX line/area coupler functionality

### Technical data

- Power supplied via KNX bus (21-30 Vdc)
- Current consumption 20 mA from KNX bus
- Up to 8 KNXnet/IP connections simultaneously
- Extended filter table for main groups 0..31
- Operating temperature: - 5 ... + 45°C
- Relative humidity: 5-93% noncondensing

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-IF1-SEC-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application programs **APEKIF1SECTP##.knxprod** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Universal interfaces

RAIL AND FLUSH-MOUNTING DEVICES



	EK-LM2-TP 4 IN	EK-CC2-TP 2 IN / 2 OUT	EK-CD2-TP 4 IN / 4 OUT	EK-CG2-TP 4 IN conf. AI for NTC probes or DI / 4 OUT	EK-CE2-TP 4 IN conf. / 2 OUT relay 5A	EK-CF2-TP for load monitoring and control
Input channels [DI]	4	2	4	-	3	-
Channels configurable as input [DI] or output [DO] for low-consumption LEDs	-	-	-	-	-	-
Input channels configurable as [AI] for NTC probes or [DI]	-	-	-	4	1	-
Input channels for current transformers EK-TA-...	-	-	-	-	-	3
Output channels for low-consumption LEDs	-	2	4	4	-	-
Output channels relay (5A)	-	-	-	-	2	-
ON/OFF command of single or grouped loads	-	•	•	•	•	-
Dimming command of lighting devices	-	•	•	•	•	-
Actuator command of shutters, blinds, venetians, etc.	-	•	•	•	•	-
Detection of the status of the indication contacts	•	•	•	•	•	-
Sending and storing of scenes	-	•	•	•	•	-
Logic functions (AND, OR or XOR), 4 channels	•	•	•	•	•	•
Room thermostat function	-	-	-	•	•	-
Pulse and actuator counting	-	•	•	•	•	-
Mounting on 35 mm standard DIN rail (EN 60715) through support EK-SMG-35	•	•	•	•	•	•



### Description

The configurable logical module Ekinex® EK-LM2-TP is a KNX S-mode device that can be used to perform logic and data processing functions on data exchanged on the KNX bus. The device is suitable for mounting in wall box or on 35 mm rail (EN 60715) with the support EK-SMG-35 included in the delivery. To be used in KNX installations for home and building automation. The device is powered by the KNX bus line with a SELV voltage 30 Vdc and does not require auxiliary power.

### Main features

- Plastic housing
- Wall installation in flush mounting box or, with a mounting support, on 35 mm rail (according to EN 60715)
- Protection degree IP20 (installed device)
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Weight 20 g

### Functions

The device implements independent blocks of the below listed types:

- **Logic:** Combines a number of boolean inputs according to logic operations.
- **Arithmetic:** Performs mathematical computations on one or more input values.
- **Range:** Performs a scaling of the input value to a different range of values, or a boundary limit.
- **Mapping:** Translates a set of input values (up to 8 points) to a different set of output values.
- **Conversion:** Converts a KNX communication object to another one with a different KNX data type (DPT).
- **Timer:** Implements a one-shot (monostable) or freerunning (astable) timer, with configurable on- and offdelay times.
- **Compare:** Returns the result of a comparison (equal, larger, smaller etc.) between two input values
- **Multiplexer:** Copies the value of one input object to either 1 of N output objects, or to all objects selected in the output set.

### Order information

Code	Version	Package
EK-LM2-TP	4 IN	1 pcs.

## Configurable logical module

UNIVERSAL INTERFACES

Each function can be configured in different ways by means of parameters in the ETS application. There are several independent instances available for each type of block, therefore the device can be used to fulfill many requirements or to solve a large number of contingencies in the same installation. An additional terminal block allows the connection of up to 4 dry contacts for simple external inputs.

### Power supply

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 10 mA

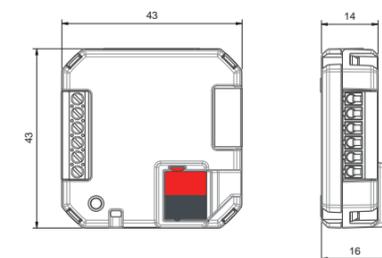
### Delivery

Delivery includes a terminal block for connection to the bus.

### Accessories

Support for mounting on a standard 35 mm DIN-rail (code EK-SMG-35) and spring for snapping on the back of Ekinex® wall-mount devices (code EK-MAR-...) to be ordered separately.

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKLM2TP##.knxprod** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Universal interface 2 (4) IN, 2 (4) OUT

UNIVERSAL INTERFACES

### Description

The Ekinex® universal interface is a KNX device which can be used as input and/or output module. The device is equipped with:

- inputs to connect the KNX bus to switches, pushbuttons or classic sensors (normally not communicating on the KNX bus) or any binary signals from other devices, in order to control KNX bus functions;
- control outputs for low consumption LEDs.

The voltage for polling the inputs is supplied within the device. The device integrates a KNX bus communication module and is realized for flush-mounting or for mounting on a standard 35 mm DIN-rail. The device is powered by the KNX bus and does not require auxiliary power supply.

### Main features

- Plastic casing
- Programming pushbutton and LED on the case
- Connection to bus line with KNX terminal block
- Screw terminal blocks for connecting inputs and outputs
- IP20 protection degree (installed device)
- Weight 20 g

### Power supply

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 10 mA

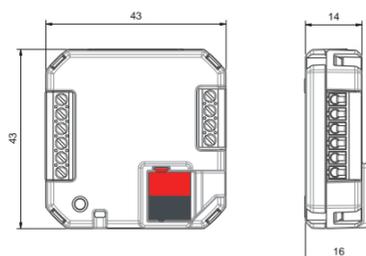
### Delivery

Delivery includes a terminal block for connection to the bus.

### Accessories

Support for mounting on a standard 35 mm DIN-rail (code EK-SMG-35) and spring for snapping on the back of Ekinex® wall-mount devices (code EK-MAR-...) to be ordered separately.

### Dimensions [mm]



### Order information

Code	Version	Package
EK-CC2-TP	2 IN / 2 OUT	1 pcs.
EK-CD2-TP	4 IN / 4 OUT	



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKCC2TP##.knxprod** (EK-CC2-TP) or  
**APEKCD2TP##.knxprod** (EK-CD2-TP) (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



EK-CC2-TP EK-CD2-TP



## Universal interface 4 configurable IN, 4 OUT

UNIVERSAL INTERFACES

### Description

The Ekinex® EK-CG2-TP pushbutton interface is a KNX device which can be used as input and/or output module. The device is equipped with 4 configurable inputs and 4 control outputs for low consumption LEDs.

Inputs can be independently configured to connect the KNX bus to:

- switches, pushbuttons, classic sensors (normally not communicating on the KNX bus ) or any binary signals from other devices, in order to control KNX bus functions;
- passive temperature sensors (NTC 10 kΩ at 25°C). The environment air mass temperature value, measured by those sensors, can be sent onto the bus or be used to control a room or zone temperature through the integrated thermostat function.

The voltage for polling the inputs is supplied within the device. The device integrates a KNX bus communication module and is realized for flush-mounting or for mounting on a standard 35 mm DIN-rail. The device is powered by the KNX bus and does not require auxiliary power supply.

### Main features

- Plastic casing
- Programming pushbutton and LED on the case
- Connection to bus line with KNX terminal block
- Screw terminal blocks for connecting inputs and outputs
- IP20 protection degree (installed device)
- Weight 20 g

### Power supply

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 10 mA

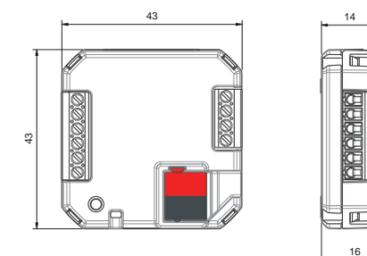
### Delivery

Delivery includes a terminal block for connection to the bus. The NTC temperature sensors (page 231) for those channels configured as [AI] must be ordered separately.

### Accessories

Support for mounting on a standard 35 mm DIN-rail (code EK-SMG-35) and spring for snapping on the back of Ekinex® wall-mount devices (code EK-MAR-...) to be ordered separately.

### Dimensions [mm]



### Order information

Code	Version	Package
EK-CG2-TP	4 IN / 4 OUT	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKCG2TP##.knxprod** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Universal interface 4 IN, 2 OUT (relay 5A)

UNIVERSAL INTERFACES

### Description

The Ekinex® universal interface EK-CE2-TP is a KNX device which can be used as input and/or output module. The device is equipped with:

- 4 inputs to connect the KNX bus to switches, pushbuttons or classic sensors (normally not communicating on the KNX bus) or any binary signals from other devices, in order to control KNX bus functions. In addition, one input is configurable as analog to connect a NTC temperature sensor (10 kΩ a 25 °C);
- 2 5A relay outputs to be used as electrical load control (independent) or paired for shutter and blind actuator control.

The voltage for polling the inputs is supplied within the device. The device integrates a KNX bus communication module and is realized for flush-mounting or for mounting on a standard 35 mm DIN-rail. The device is powered by the KNX bus and does not require auxiliary power supply.

### Main features

- Plastic casing
- Programming pushbutton and LED on the case
- Connection to bus line with KNX terminal block
- Screw terminal blocks for connecting inputs and outputs
- IP20 protection degree (installed device)
- Weight 35 g

### Power supply

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 10 mA

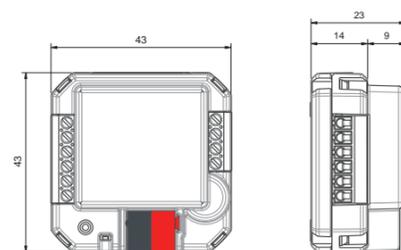
### Delivery

Delivery includes a terminal block for connection to the bus. The NTC temperature sensors (page 231) for those channels configured as [AI] must be ordered separately.

### Accessories

Support for mounting on a standard 35 mm DIN-rail (code EK-SMG-35) and spring for snapping on the back of Ekinex® wall-mount devices (code EK-MAR-...) to be ordered separately.

### Dimensions [mm]



## Load monitoring and control interface

UNIVERSAL INTERFACES

### Description

The Ekinex® EK-CF2-TP interface for load monitoring and control is a KNX devices which can be used to:

- measure the instantaneous current absorbed by (up to) three single-phase or one three-phase electrical circuits;
- control electrical loads with priority disconnection and reconnection.

The current measurement is performed by means of max three Ekinex® EK-TA-... current transformers. The device is powered by the KNX bus and does not require auxiliary power supply. Flush-mounting or mounting on a standard 35 mm DIN-rail by means of a support included in the delivery.

### Main features

- Plastic casing
- Programming pushbutton and LED on the case
- Connection to bus line with KNX terminal block
- Connection to current transformers by means of a 6-wire screw terminal block
- IP20 protection degree (installed device)
- Weight 20 g

### Functional characteristics

- Connection to current transformers EK-TA-... by means of 3 physical inputs
- Possibility to measure (up to) three single-phase or one three-phase lines;
- Possibility to receive power values from bus
- 8 general purpose power thresholds
- 4 4-channel logic functions (AND, OR or XOR)

### Load monitoring

- Direct measurement of instantaneous current by means of transformers EK-TA-...
- Calculation of instantaneous power
- Total electricity metering
- Sending on the bus of measured current, power and energy values

### Order information

Code	Package
EK-CF2-TP	1 pcs.

### Load control

- Possibility to independently handle up to 8 loads for each channel
- Configurable power threshold for load control and related hysteresis
- Sending on the bus of an indication when the threshold is reached
- Possibility to exclude loads from the bus
- Disconnection and reconnection delay independently configurable for each channel

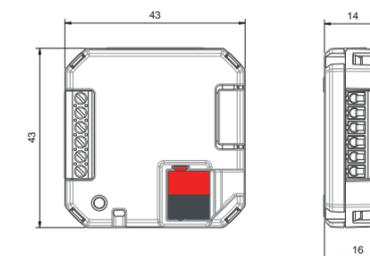
### Power supply

- 30 Vdc power supply by KNX bus
- Current consumption from bus < 10 mA

### Delivery

Delivery includes a terminal block for connection to the bus and a support for mounting on a standard 35 mm DIN-rail. Current transformers EK-TA-... (page 151) must be ordered separately.

### Dimensions [mm]



### Order information

Code	Package
EK-CE2-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKCE2TP#.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKCF2TP#.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)





## Current transformer (TA) for EK-CF2-TP interface

ACCESSORIES FOR UNIVERSAL INTERFACES

### Description

Current transformer (TA) to used in combination with an Ekinex® EK-CF2-TP load monitoring and control interface.

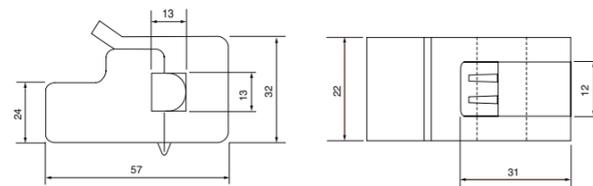
### Main features

- Plastic casing
- Ferrite core
- 1,5 m connecting cable with free ends
- Weight: 55 g

### Technical data

- Nominal voltage: 0...1 Vac
- Precision: ±1 %
- Linearity: ≤ 0,2 %
- Operation frequency: 50...1KHz
- Dielectric resistance (50 Hz, 1 min): 3 KV
- Fire resistance: UL 94-V0

### Dimensions [mm]



### Order information

Code	Nominal current [A]	Package
EK-TA-05A	0...5	1 pcs.
EK-TA-20A	0...20	
EK-TA-30A	0...30	
EK-TA-40A	0...40	
EK-TA-50A	0...50	
EK-TA-60A	0...60	



### Configuration and commissioning

The device does not require any configuration. The used version must be set in the application program of the EK-CF2-TP interface.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Description

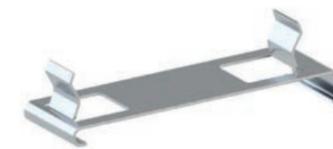
Support for mounting universal interfaces (except EK-CB2-TP) on a standard 35 mm DIN-rail.

### Order information

Code	Package
EK-SMG-35-1	1 pcs.
EK-SMG-35-5	5 pcs.

## Support for DIN-rail mounting

ACCESSORIES FOR UNIVERSAL INTERFACES



### Description

Spring for snapping universal interfaces (except EK-CB2-TP) on the back of Ekinex® wall-mount devices.

### Order information

Code	Package
EK-MAR-1	1 pcs.
EK-MAR-5	5 pcs.

## Spring for snapping on wall-mount devices

ACCESSORIES FOR UNIVERSAL INTERFACES



## Inputs

DIN-RAIL MOUNT MODULES

EK-CA1-TP  
8-fold analog/binary input



ON / OFF switching of individual loads or groups of loads	•
Dimming control for lighting devices	•
Operating control for shutters and roller blinds	•
Detecting the status of signaling contacts	•
Recalling and saving of scenes	•
Pushbutton for toggling between manual and automatic operation	•
Pushbuttons for forced operation of the inputs	•
Counting of impulses and switching cycles	•
Mounting on standard 35 mm rail (EN 60715)	•
Connection of potential-free contacts or NTC passive temperature sensors	•



### Description

The Ekinex® EK-CA1-TP binary input has 8 independent input channels for connecting to the KNX bus commands and sensors of traditional type, having potential-free contacts or NTC passive temperature sensor. Thanks to the binary input, it is possible to command and control bus functions with standard switches, pushbuttons or sensors (not natively communicating with the KNX bus) or binary signals made available by other devices. The query voltage of input channels is produced within the device. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and does not require auxiliary power supply.

### Main features

- Plastic casing
- ON/OFF switching of single loads or group of loads
- Detecting the state of signaling contacts (from safety devices, alarms, etc.)
- Recalling and saving of scenes
- Sending on the bus of values (temperature, brightness, etc.)
- Switching to forced functioning (lock)
- Counting of impulses and switching cycles
- Dimming of lighting devices
- Operating of shutters and roller blinds
- Measuring of the air mass temperature with a ntc passive temperature sensor (ntc 10 kΩ at 25 °c) with possibility of sending the value on the bus
- 2 Points (on / off) or proportional (pwm or continuous) room temperature regulation
- 4 Logic functions (and, or or xoR) with 4 logic objects in input each
- Frontal programming pushbutton and LED
- Membrane keyboard with LED's for status indication
- Pushbutton for switching operating mode (normal / programming)
- Connection to bus line with KNX terminal block
- Connection of inputs with screw terminals
- Installation on 35 mm rail (according to EN 60715)

### Order information

Code	Package
EK-CA1-TP	1 pcs.

## 8-fold analog/binary input

INPUTS

- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 145 g

### Technical data

#### Power supply

- Voltage 30 Vdc by KNX bus
- Current consumption from bus < 13 mA
- Power on bus 320 mW

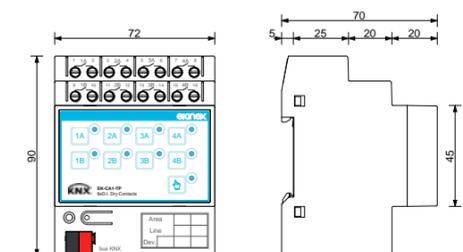
### Inputs

- Number: 8
- Query voltage: < 11 V
- Query current: < 5 mA

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKCA1TP#.#knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



## Actuators

### DIN-RAIL MOUNT MODULES

EK-FA1-TP 4-fold binary output  
 EK-FB1-TP 8-fold binary output  
 EK-FE1-TP 8-fold binary output / 4-fold blind actuator  
 EK-FF1-TP 16-fold binary output / 8-fold blind actuator



ON / OFF switching of individual loads or groups of loads	•	•	•	•
Configurable as normally open or normally closed switch	•	•	•	•
Logical gates and forced mode for each channel	•	•	•	•
Manual control by membrane pushbuttons	-	-	•	•
Manual control by levers (also without bus voltage)	•	•	-	-
Status feedback of output channels through the position of the levers	•	•	-	-
Status feedback of output channels through LEDs	-	-	•	•
Switching pushbutton manual / automatic mode	-	-	•	•
Block function for each channel	-	-	•	•
Auxiliary power supply	-	-	•	•
Time scheduling: switching delay for on and off, staircase lighting function	•	•	•	•
Management of scenarios	•	•	•	•
Operating hours counter configurable via bus	•	•	•	•
Shutters / blinds operation mode	-	-	•	•
Automatic control for protection against direct sunlight	-	-	•	•
Automatic control for protection against weather conditions (rain, wind, frost)	-	-	•	•
Mounting on standard 35 mm rail (EN 60715)	•	•	•	•



#### Description

The Ekinex® EK-FA1-TP binary output allows to command 4 groups of loads independently; to this purpose, the device has outputs fitted with potential-free relays. The device's latching relays guarantee the upkeep of command status even in the case of bus power failures. The front levers indicate the status of each output channel and, in case of emergency, allow manual command (by means of a tool) of the loads. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and does not require auxiliary power supply.

#### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Connection to bus line with KNX terminal block
- Connection of outputs with screw terminals
- Overvoltage class III (according to EN 60664-1)
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 205 g

#### Order information

Code	Package
EK-FA1-TP	1 pcs.

## 4-fold binary output

### ACTUATORS

#### Technical data

##### Power supply

- 30 Vdc voltage by KNX bus
- Current consumption from bus < 12 mA
- Power from bus 360 mW

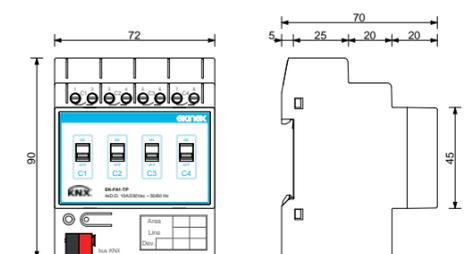
##### Outputs

- 4 latch relays
- Nominal voltage (U<sub>n</sub>): 100-230Vac, 50/60Hz
- Nominal current (I<sub>n</sub>): max 10 A (both @100Vac and @230Vac)
- Switched power: 1000W @100Vac - 2200 W @230Vac

#### Delivery

Delivery includes a terminal block for connection to the bus.

#### Dimensions [mm]



#### Configuration and commissioning

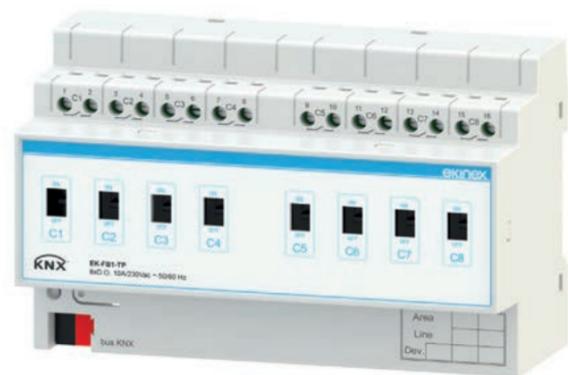
By means of ETS5 software or later versions  
 Application program **APEKFA1TP##.knxprod**  
 (download from [www.ekinex.com](http://www.ekinex.com))



#### Documentation

For more information see the technical documentation,  
 download from [www.ekinex.com](http://www.ekinex.com)





## 8-fold binary output ACTUATORS

### Description

The Ekinex® EK-FB1-TP binary output allows to command 8 groups of loads independently; to this purpose, the device has outputs fitted with potential-free relays. The device's latching relays guarantee the upkeep of command status even in the case of bus power failures. The front levers indicate the status of each output channel and, in case of emergency, allow manual command (by means of a tool) of the loads. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and does not require auxiliary power supply

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Connection to bus line with KNX terminal block
- Connection of outputs with screw terminals
- Overvoltage class III (according to EN 60664-1)
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Installation on 35 mm rail (according to EN 60715)
- 8 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 385 g

### Technical data

#### Power supply

- 30 Vdc voltage by KNX bus
- Current consumption from bus < 12 mA
- Power from bus 360 mW

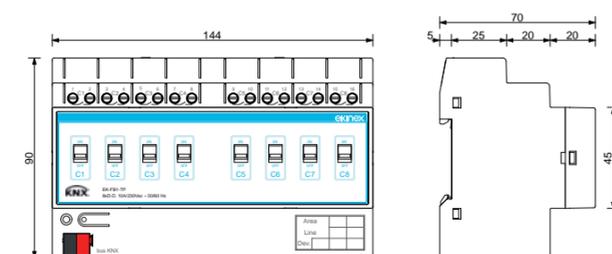
#### Outputs

- 4 latch relays
- Nominal voltage ( $U_n$ ): 100-230Vac, 50/60Hz
- Nominal current ( $I_n$ ): max 10 A (both @100Vac and @230Vac)
- Switched power: 1000W @100Vac - 2200 W @230Vac

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-FB1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKFB1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



## 8-fold binary output/ 4-fold blind actuator ACTUATORS

### Description

The Ekinex® EK-FE1-TP binary output / blind actuator allows to command 8 groups of loads or control 4 drives for motorised blinds independently. The device is fitted with membrane pushbuttons for manual command (even in the absence of bus power) and LED's for status indication: a pushbutton allows to switch between automatic and manual operation modes. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and requires an additional 230 Vac power supply to operate.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LED's for status indication
- Pushbutton for switching operating mode (normal / programming)
- Connection to bus line with KNX terminal block
- Connection of outputs and 230 Vac power supply with screw terminals
- Overvoltage class III (according to EN 60664-1)
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 315 g

### Technical data

#### Power supply

- Voltage auxiliary 100-230 Vac 50/60 Hz
- Voltage control section 30 Vdc by KNX bus
- Current consumption from bus < 10 mA
- Power on bus < 240 mW

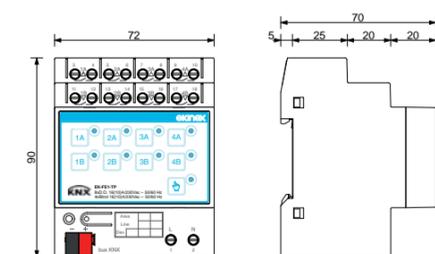
#### Outputs

- Number: 8 or 4 independent channels (depending on device use)
- Nominal voltage ( $U_n$ ): 100-230 Vac 50/60Hz
- Nominal current ( $I_n$ ): max 16 (10) A (both @100Vac and @230Vac)
- Max. switched power: max 4000 VA @250Vac

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-FE1-TP	1 pcs.



### Configuration and commissioning

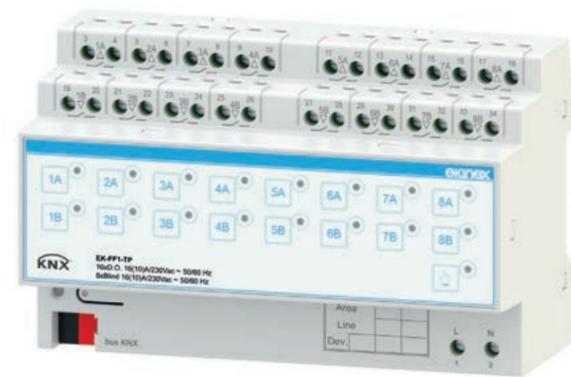
By means of ETS5 software or later versions  
Application program **APEKFE1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)





# 16-fold binary output/ 8-fold blind actuator

ACTUATORS

### Description

The Ekinex® EK-FF1-TP binary output / blind actuator allows to command 16 groups of loads or control 8 drives for motorised blinds independently. The device is fitted with membrane pushbuttons for manual command (even in the absence of bus power) and LED's for status indication: a pushbutton allows to switch between automatic and manual operation modes. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and requires an additional 230 Vac power supply to operate.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LED's for status indication
- Pushbutton for switching operating mode (normal / programming)
- Connection to bus line with KNX terminal block
- Connection of outputs and 230 Vac power supply with screw terminals
- Overvoltage class III (according to EN 60664-1)
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Pollution degree 2 (according to IEC 60664-1)
- Installation on 35 mm rail (according to EN 60715)
- 8 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 595 g

### Technical data

#### Power supply

- Voltage auxiliary 100-230 Vac 50/60 Hz
- Voltage control section 30 Vdc by KNX bus
- Current consumption from bus < 10 mA
- Power on bus < 240 mW

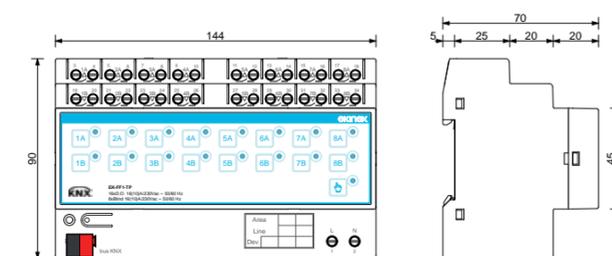
#### Outputs

- Number: 16 or 8 independent channels (depending on device use)
- Nominal voltage (U<sub>n</sub>): 100-230 Vac 50/60Hz
- Nominal current (I<sub>n</sub>): max 16 (10) A (both @100Vac and @230Vac)
- Max. switched power: max 4000 VA @250Vac

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-FF1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKFF1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



# I/O modules

DIN-RAIL MOUNT MODULES

EK-HU1-TP  
Input/output module  
for office applications



EK-HO1-TP  
Input/output module  
for hotel applications



30 Vdc power supply from bus	•	•
Auxiliary power supply 230 Vac 50/60 Hz	•	•
Analog Inputs	1	1
Freely programmable inputs as analogue or binary inputs	1	1
Binary inputs	3	9
Relay outputs 5 (3) A	2	4
Relay outputs 5 (3) A, for fan control	3	3
Relay outputs 16 (10) A, for heating and cooling valve control	-	2
Relay outputs for electric lock control	1	1
Relay outputs 16 (10) A	-	6
0-10 Vdc output	1	1
Membrane keypad for manual control of outputs	•	•
Function for ON/OFF lighting control	1	6
Function for roller shutters / awnings control	1	2
Function for electric strike control	-	•
Temperature control function	•	•
Switch-off scenarios and courtesy lights function	-	•
Logical functions	•	•

## Input/output module for office applications

I/O MODULES



### Description

The Ekinex® EK-HU1-TP module allows to manage all functions of an office or a open-space zone: lighting, temperature control, shades and input/output indications. The device is equipped with membrane keys for manual control and status indication LEDs: a pushbutton allows to switch mode from automatic to manual and vice versa. The device integrates a KNX bus communication module and is intended for mounting on a 35 mm standard DIN-rail. It is supplied by the KNX bus: in order to be operational it also requires a 230 Vac voltage.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keypad with LED indication of the input status
- Pushbutton for automatic/manual mode switch
- Connection to bus line with KNX terminal block
- Screw terminal blocks for connecting inputs, outputs and 230 Vac power supply
- 3K5 climatic and 3M2 mechanic classification (according to EN 50491-2)
- Overvoltage class III (according to EN 60664-1)
- Pollution level 2 (according to IEC 60664-1)
- Mounting on 35 mm standard DIN-rail (according to EN 60715)
- 8 modular units (1 UM = 18 mm)
- Protection degree IP20 (device installed)
- Weight 595 g

### Technical data

#### Power supply

- Load power supply 230 Vac 50/60 Hz; electrical lock 12-24 V
- Power supply (electronics) 30 Vdc via KNX bus
- Current consumption by bus < 10 mA
- Power on bus < 240 mW

### Order information

Code	Package
EK-HU1-TP	1 pcs.

### Inputs

- 1 analog for NTC temperature sensor (thermostat function)
- 4 digital

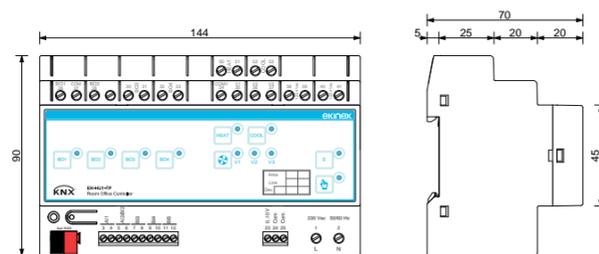
### Outputs

- 10 digital of which:
  - 3 general purpose
  - 2 (paired) for blind or shade control
  - 5 fancoil: 3 for fan speed (3 speeds) and 2 for controlling electrothermal actuators on hot/cold valves
- 1 analog 0-10V for fan speed control

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKHU1TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Input/output module for hotel applications

I/O MODULES



### Description

The Ekinex® EK-HO1-TP module allows to manage all functions of a hotel room: lighting, temperature control, shades and input/output indications. The device is equipped with membrane keys for manual control and status indication LEDs: a pushbutton allows to switch mode from automatic to manual and vice versa. The device integrates a KNX bus communication module and is intended for mounting on a 35 mm standard DIN-rail. It is supplied by the KNX bus: in order to be operational it also requires a 230 Vac voltage.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keypad with LED indication of the input status
- Pushbutton for automatic/manual mode switch
- Connection to bus line with KNX terminal block
- Screw terminal blocks for connecting inputs, outputs and 230 Vac power supply
- 3K5 climatic and 3M2 mechanic classification (according to EN 50491-2)
- Overvoltage class III (according to EN 60664-1)
- Pollution level 2 (according to IEC 60664-1)
- Mounting on 35 mm standard DIN-rail (according to EN 60715)
- 8 modular units (1 UM = 18 mm)
- Protection degree IP20 (device installed)
- Weight 595 g

### Technical data

#### Power supply

- Load power supply 230 Vac 50/60 Hz; electrical lock 12-24 V
- Power supply (electronics) 30 Vdc via KNX bus
- Current consumption by bus < 10 mA
- Power on bus < 240 mW

### Order information

Code	Package
EK-HO1-TP	1 pcs.

### Inputs

- 1 analog for NTC temperature sensor (thermostat function)
- 1 configurable as analog or digital
- 10 digital of which:
  - 4 general purpose
  - 2 door or window opening contact
  - 1 pushbutton with pulling call for assistance/emergency
  - 1 badge contact
  - 2 pushbuttons «Do not disturb» e «Please make room»

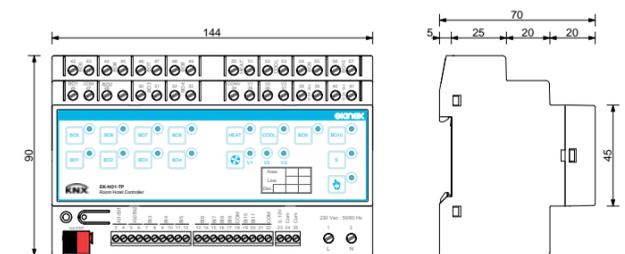
### Outputs

- 15 digital of which:
  - 3 general purpose
  - 3 for indications: «guest in the room», «room assigned», busy room or emergency»
  - 2 (paired) for blind or shade control
  - 1 for courtesy light control
  - 5 for fancoil: 3 for fan speed (3 speeds) and 2 for controlling electrothermal actuators on hot/cold valves
  - 1 digital room contactor and auxiliaries
- 1 powered at 12/24 Vac for controlling an electric lock
- 1 analog 0-10 V for fan speed control

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program: **APEKHO1TP##.knxprod**  
(## = version, downloadable from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Dimmers

DIN-RAIL MOUNT MODULES

EK-GA1-TP  
2-fold dimming  
actuator

EK-GC1-TP  
4-fold RGBW LED  
dimmer

EK-GF1-TP  
4-fold 0-10 V  
actuator



ON/OFF switching of single or groups of lighting device	•	•	•
Brightness regulation and adjusting the light intensity	•	•	•
Logical gates and forced mode for each channel	•	•	•
Manual control by membrane pushbuttons	•	•	•
Status feedback of output channels through LEDs	•	•	•
Block function for each channel	•	•	•
Without auxiliary power supply	•	•	•
Time scheduling: switching delay for on and off, staircase lighting function	•	•	•
Integration in scenarios	•	•	•
Operating hours counter configurable via bus	•	•	•
Fade adjustable ramps	•	•	•
RGB / HSV operating mode	-	•	•
Mounting on standard 35 mm rail (EN 60715)	•	•	•



### Description

The Ekinex® EK-GA1-TP dimming actuator allows to command and regulate the light intensity of 2 groups of lighting devices. The device is suitable for the control of resistive, inductive and capacitive loads powered with 230 Vac. Different types of loads can be connected to different channels. The device is fitted with membrane pushbuttons for manual command and LEDs for status indication; a pushbutton allows the switching between automatic or manual operation modes. The device integrates a KNX bus communication module and is realised for mounting on a standard 35 mm DIN-rail. The device is powered by the KNX bus and requires an additional 230 Vac power supply to operate the loads.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LEDs for status indication of outputs
- Pushbutton for switching operating mode (normal / programming)
- Connection to bus line with KNX terminal block
- Connection of outputs and 230 Vac power supply with screw terminals
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 160 g

### Order information

Code	Package
EK-GA1-TP	1 pcs.

## 2-fold dimming actuator

DIMMERS

### Technical data

#### Power supply

- Voltage (loads): 230 Vac 50/60 Hz
- Voltage (electronics): 30 Vdc by KNX bus
- Current consumption from bus: < 13 mA
- Max. power from bus: 320 mW

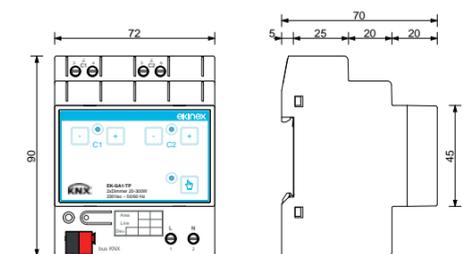
#### Outputs

- Number: 2
- Max. controlled power: 300 W
- Min. controlled power: 10 W

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKGA1TP#.#.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



## 4-fold RGBW LED dimmer

DIMMERS



### Description

The Ekinex® EK-GC1-TP 4-fold RGBW LED dimmer allows to regulate independently the light intensity emitted by 4 LED strips at 12/24 Vdc or, alternatively, to regulate the light intensity and the colour emitted by a RGB or RGBW LED strip. The device is suitable for use with LED strips powered at constant voltage. The selection of the colour can be made optionally in HSV or RGB mode. Scenarios, predefined sequences, sequence repetition and random functions are available; the dimming speed and the holding time are programmable. The device is fitted with membrane pushbuttons for manual command and LEDs for status indication; a pushbutton allows the switching between automatic or manual operation modes. The device integrates a KNX bus communication module and is realised for mounting on a standard 35 mm DIN-rail. The device is powered by the KNX bus and requires an additional 12...30 Vdc to supply the controlled loads.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LEDs for status indication of outputs
- Pushbutton for switching operating mode (normal / programming)
- CH pushbutton for individual or simultaneous channels control
- HSV / RGB pushbutton colour control mode
- Auxiliary dry contact to disconnect load power supply during standby
- Connection to bus line with KNX terminal block
- Connection of outputs and 12-30 Vdc power supply with screw terminals
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)

### Technical data

#### Power supply

- Voltage (strip LED): max 30 Vdc, 16 A
- Voltage (control): 30 Vdc by KNX bus

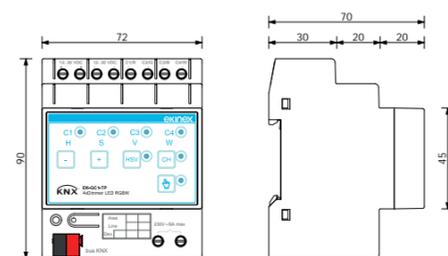
#### Outputs

- Number: 4
- Load current for each channel: 4 A

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-GC1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKGC1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



## 4-fold 0-10 V actuator

DIMMERS

### Description

The Ekinex® 4-fold 0-10 V actuator EK-GF1-TP can be used as 0-10 V control output device or, alternatively, for controlling dimmerable LED power supply units. When used for LED controlling, the selection of the colour can be made optionally in HSV or RGB mode. Scenarios, predefined sequences, sequence repetition and random functions are available; the dimming speed and the holding time are programmable. The device is fitted with membrane pushbuttons for manual command and LEDs for status indication; a pushbutton allows the switching between automatic or manual operation modes. The device integrates a KNX bus communication module and is realised for mounting on a standard 35 mm DIN-rail. The device is powered by the KNX bus.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LEDs for status indication of outputs
- Pushbutton for switching operating mode (normal / programming)
- CH pushbutton for individual or simultaneous channels control
- HSV / RGB pushbutton colour control mode
- Connection to bus line with KNX terminal block
- Connection of outputs with screw terminals
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)

### Technical data

#### Power supply

- Voltage (control): 30 Vdc by KNX bus
- Rated output stage supply voltage: 100-230Vac, 50/60Hz max 5W

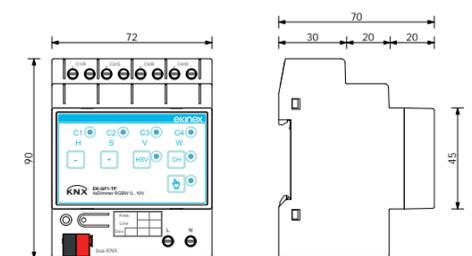
#### Outputs

- Number: 4
- Range: 0-10 V or 1-10V
- Max. current for each channel: 50 mA

### Delivery

Delivery includes a terminal block for connection to the bus and a terminal block for connection to the auxiliary power supply.

### Dimensions [mm]



### Order information

Code	Package
EK-GF1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKGF1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)





## Dimmer 90-230V~ 50/60Hz

DIMMERS

### Description

The single-channel phase cut dimmer EK-GD2-1-HV allows the brightness control of LED and halogen sources with a voltage of 90-230 Vac 50/60Hz for up to 220W.

### Main features

- Plastic housing
- Device for free installation in junction boxes or wall
- Mounting on 35 mm profile rail (by means of code holder included)
- IP10 degree of protection (device installed)

### Functions

- Dimming up to complete switch-off (dim-to-dark)
- Minimum brightness level: 1%
- Optimised output curve

### Connections

- Screw terminals for control, supply and loads

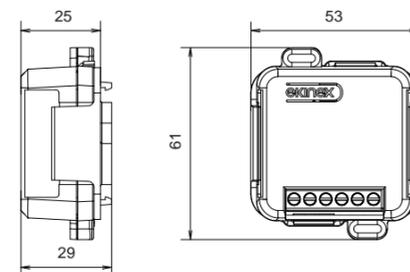
### Technical data

- Single-channel dimmer with phase-cut output
- Supply range: 90-230 Vac 50/60Hz
- Maximum output power 230W
- Control inputs: non-isolated N.O. pushbutton
- Maximum resistive load 1A.
- Conductor diameter 12-30 AWG (0.05-2.5 mmq)
- Storage temperature Min: -40°C Max: 60°C

### Note

For electronic loads and/or LEDs consider maximum power halved from nominal value.

### Dimensions [mm]



## DALI Dimmers

DIN RAIL MOUNT MODULES

EK-GD2-DL-1-LV  
DALI Dimmer  
12 / 48 Vdc



EK-GD2-DL-2-LV  
DALI Dimmer  
12 / 48 Vdc 2 channels



EK-GD2-DL-1-HV  
Dali Dimmer  
90-230V-50/60Hz



EK-GD1-DL-4-LV  
Dali Dimmer  
12/48V dc 4 channels



EK-GD1-DL-4-HV  
Dali Dimmer  
90-230V-50/60Hz  
4 channels



Memory function	•	•	•	•	•
Brightness adjustment until complete switch-off	•	•	•	•	•
Local control input	•	-	-	-	-
PWM modulation with settable frequency (300 / 600 / 1200 Hz)	-	-	-	•	-
Settable dimming curve: linear / logarithmic	•	•	•	•	•
Smooth switching on and off	•	•	•	•	•
Optimised output curve	•	•	•	•	•
Screw terminals for DALI bus, control, power supply and LED source	•	•	•	•	•
Device power supply: 10.8 Vdc (min)... 52.8 Vdc (max)	•	•	-	•	-
Device power supply: 90-230 Vac 50/60 Hz	-	-	•	-	•

### Order information

Code	Channels	Packaging
EK-GD2-1-HV	1	1 pcs.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## DALI Dimmer 12/48 Vdc

DALI DIMMERS



### Description

The DALI-2 1-channel dimmer EK-GD2-DL-1-LV allows the brightness control of low voltage LED sources from 12 to 48Vdc by means of PWM dimming. DALI-2 bus input reference IEC 62386. The 2-channel DALI-2 dimmer EK-GD2-DL-2-LV allows the control of brightness and colour temperature of low-voltage LED sources from 12 to 48Vdc by means of PWM dimming. Dynamic white temperature control TW DALI DT8, 2 independent channels (2 DALI addresses) or a single DALI DT6 channel. Functions can be set by means of a selector switch. Bus input DALI-2 reference IEC 62386.

### Main features

- Plastic housing
- Free-standing device for installation in junction boxes or walls
- Mounting on 35 mm profile rail (using special bracket code included)
- IP10 degree of protection (device installed)

### Functions

- Memory function settable by DALI
- Dimming up to complete switch-off (dim-to-dark)
- Minimum brightness level: 0.1%
- PWM modulation flicker free (2000 Hz)
- DALI-settable dimming curve: linear or logarithmic
- Switch-on and switch-off times settable by DALI
- Optimised output curve

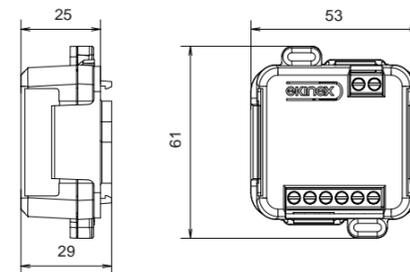
### Connections

- Screw terminals for DALI bus, control, power supply and LED source
- Max. connection length between dimmer-driver and control < 10 m

### Technical data

- Device power supply: 10.8 Vdc (min)... 52.8 Vdc (max)
- Max. power: 240W
- Control: BUS DALI or local button

### Dimensions [mm]



## DALI Dimmer 90-230V~ 50/60Hz

DALI DIMMERS



### Description

The single-channel phase cut dimmer EK-GD2-DL-1-HV allows the brightness control of LED and halogen sources with a voltage of 90-230 Vac 50/60Hz for up to 220Watts. Input Bus DALI-2 reference IEC 62386 standard.

### Main features

- Plastic housing
- Device for free installation in junction boxes or wall
- Mounting on 35 mm profile rail (by means of code holder included)
- IP10 degree of protection (device installed)

### Functions

- Dimming up to complete switch-off (dim-to-dark)
- Minimum brightness level: 1%
- Optimised output curve

### Connections

- Screw terminals for DALI bus, control, power supply and LED source

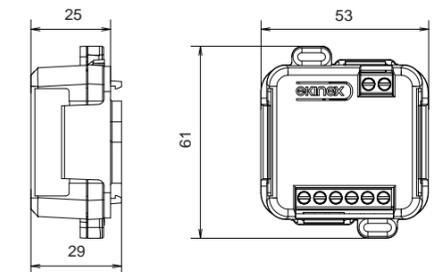
### Technical data

- Single-channel dimmer with phase-cut output
- Supply range: 90-230 Vac 50/60Hz
- Maximum output power 230W
- Control inputs: DALI bus
- Maximum resistive load 1A.
- For electronic and/or LED loads the power is halved
- Conductor diameter 12-30 AWG (0.05-2.5 mmq)
- Storage temperature Min: -40°C Max: 60°C

### Note

For electronic loads and/or electronic LEDs consider maximum power halved from nominal value.

### Dimensions [mm]



### Order information

Code	Channels	Packaging
EK-GD2-DL-1-LV	1	1 pcs.
EK-GD2-DL-2-LV	2	



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



1 CHANNEL 2 CHANNELS

### Order information

Code	Channels	Packaging
EK-GD2-DL-1-HV	1	1 pcs.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## DALI Dimmer 12/48Vdc 4 channels

DALI DIMMERS



### Description

The 4-channel DALI-2 dimmer allows control of brightness, temperature and RGBW colour of low-voltage LED sources. Power supply from 12 to 48Vdc, PWM dimming. Compliant with the new FLICKER-FREE standard. Input Bus DALI-2 reference IEC 62386 standard.

### Main features

- Plastic housing
- Device with 4 modular units
- IP20 degree of protection (device installed)

### Functions

- Memory function
- Brightness adjustment until complete switch-off (dim-to-dark)
- Minimum brightness level: 0.1% (1% in push)
- PWM modulation with settable frequency (300/600/1200/2000Hz)
- Settable dimming curve: linear / quadratic / exponential
- Smooth switching on and off
- Optimised output curve

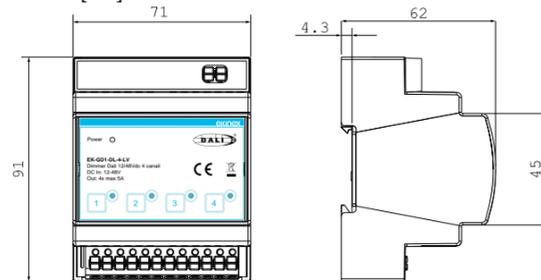
### Connections

- Dip-switch for setting operating mode, frequency dimming connections
- Spring terminals for easy application

### Technical data

- Device power supply: 10.8 Vdc (min)... 52.8 Vdc (max)
- Power consumption (at 40°C): 480 Watts total
- Dali absorption 1.53mA

### Dimensions [mm]



### Order information

Code	Channels	Packaging
EK-GD1-DL-4-LV	4	1 pcs.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## DALI Dimmer 90-230V~ 50/60Hz 4 channels

DALI DIMMERS



### Description

The 4-channel DALI-2 dimmer allows brightness control of LED and halogen sources with voltage 90-230 Vac 50/60Hz for up to 200Watts on 4 channels each. Input Bus DALI-2 reference IEC 62386 standard.

### Main features

- Plastic housing
- Device with 4 modular units
- Mounting on 35 mm profile rail (according to EN 60715)
- IP20 degree of protection (device installed)

### Functions

- Memory function, fade time, minimum and maximum level settable via DALI software
- Dimming up to complete switch-off (dim-to-dark)
- Minimum brightness level: 0.1%
- Dimming curve: linear / logarithmic settable by DALI
- Electronic short-circuit and overload protection

### Connections

Spring terminals for easy application

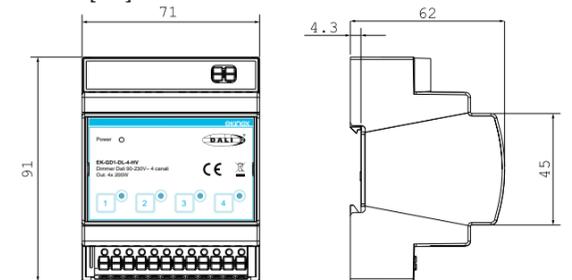
### Technical data

- 4-channel dimmer with phase cut output
- Power supply range: 90-230 Vac 50/60Hz
- Maximum power output 200W per channel
- For electronic loads and/or electronic LEDs the power is halved
- Conductor diameter 12-30 AWG (0.05-2.5 mmq)
- Storage temperature Min: -40°C Max: 60°C

### Note

For electronic loads and/or electronic LEDs consider maximum power halved from nominal value.

### Dimensions [mm]



### Order information

Code	Channels	Packaging
EK-GD1-DL-4-HV	4	1 pcs.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



# Thermoregulation

DIN-RAIL MOUNT MODULES

EK-HA1-TP Fan-coil actuator / controller 3-speed fan control  
 EK-HB1-TP Fan-coil actuator / controller 0-10 V fan control  
 EK-HC1-TP Fan-coil actuator / controller full version  
 EK-HE1-TP 8-fold actuator / controller for electrothermal valve drives  
 EK-HH1-TP Mixing actuator



Power 30 Vdc from KNX bus	•	•	•	•	•
Auxiliary power supply 230 Vac 50/60 Hz	•	•	•	•	•
Analog input (passive temperature sensors 10 kΩ NTC at 25°C)	•	•	•	-	•
Digital input (potential-free)	•	•	•	-	•
Output relays	•	•	•	-	•
Output triac relays	-	-	-	•	•
Output 0-10V (high impedance signal control)	-	•	•	-	•
Membrane keyboard for manual/automatic control with status indication LEDs	-	-	•	-	•
LCD-display	-	-	-	-	•
2-pipe hydraulic distribution systems applications	•	•	•	•	-
4-pipe hydraulic distribution systems applications	-	-	•	•	-
Actuator	•	•	•	•	-
Internal controller	•	•	•	•	•
Air flow terminal: ventilation	•	•	•	-	-
Air flow terminal: convector	•	•	•	-	-
Air flow terminal: fan-coil	•	•	•	-	-
Air flow terminal: fan-coil + 2° electrical stage	-	-	•	-	-
Underfloor and ceiling systems distribution	-	-	-	•	•
Underfloor and ceiling mixing valve systems	-	-	-	-	•
Mounting on standard 35 mm rail (EN 60715)	•	•	•	•	•

EK-B01-TP-RMA  
 Modbus / KNX interface for RDZ air handling units



Power 30 Vdc from KNX bus	•
Mounting on standard 35 mm rail (EN 60715)	•
<b>Supported RDZ air handling units</b>	
Mechanical ventilation with heat recovery	CHR Family WHR Family
Air renewal with dehumidification	UAP PDC Family UC Family
LED signalling Modbus traffic	•
Device status LED	•
LED error indication	•
KNX programming LED	•
Programming button	•



## Description

The Ekinex® EK-HA1-TP fancoil actuator / controller allows to control a fan coil unit for the air conditioning of a room. The device can perform the function of simple actuator in combination with a KNX room thermostat or that of actuator / controller with acquisition of the temperature value by a KNX room sensor or a probe connected to an analog input. The device is suitable for 2-pipe hydraulic distribution systems with ON / OFF control of one electrothermal shut-off valve actuator and a 3-speed fan. The outputs not used to control the fan coil unit can be configured as binary output channels for different functions. The device is equipped with 2 inputs freely configurable as analog or digital. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and requires an additional 230 Vac power supply to operate.

## Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Connection to bus line with KNX terminal block
- Connection of inputs, outputs and 230 Vac power supply with screw terminals
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Overvoltage class III (according to EN 60664-1)
- Pollution degree 2 (according to IEC 60664-1)
- 35 mm rail mounting (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 175 g

## Order information

Code	Package
EK-HA1-TP	1 pcs.

# Fancoil actuator / controller 3-speed fan control

THERMOREGULATION

## Technical data

### Power supply

- Voltage (loads) 230 Vac 50/60 Hz
- Voltage (electronics) 30 Vdc by KNX bus

### Inputs

- 2 freely configurable for passive temperature sensors (10 kΩ NTC at 25°C) or as potential-free binary inputs

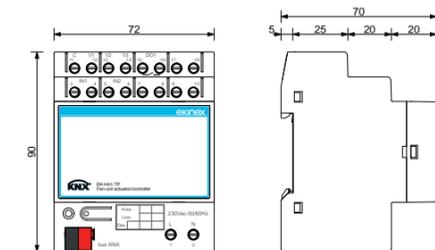
### Outputs

- 3 interlocked relay outputs to control a 3-speed fan (or configurable as binary outputs for different applications)
- 1 relay SPST (single pole, single throw) to control an ON / OFF valve (in 2-pipe hydraulic distribution systems)

## Delivery

Delivery includes a terminal block for connection to the bus.

## Dimensions [mm]



## Configuration and commissioning

By means of ETS5 software or later versions  
 Application program **APEKHA1TP#.#.knxprod**  
 (download from [www.ekinex.com](http://www.ekinex.com))



## Documentation

For more information see the technical documentation,  
 download from [www.ekinex.com](http://www.ekinex.com)





## Fancoil actuator / controller 0-10 V fan control

THERMOREGULATION

### Description

The Ekinex® EK-HB1-TP fancoil actuator / controller allows to control a fan coil unit for the air conditioning of a room. The device can perform the function of simple actuator in combination with a KNX room thermostat or that of actuator / controller with acquisition of the temperature value by a KNX room sensor or a probe connected to an analog input. The device is suitable for 2-pipe hydraulic distribution systems with ON / OFF control of one electrothermal shut-off valve actuator and a fan with brushless motor. The outputs not used to control the fan coil unit can be configured as binary output channels for different functions. The device is equipped with 2 inputs freely configurable as analog or digital. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and requires an additional 230 Vac power supply to operate.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Connection to bus line with KNX terminal block
- Connection of inputs, outputs and 230 Vac power supply with screw terminals
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Overvoltage class III (according to EN 60664-1)
- Pollution degree 2 (according to IEC 60664-1)
- 35 mm rail mounting (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 175 g

### Technical data

#### Power supply

- Voltage (loads) 230 Vac 50/60 Hz
- Voltage (electronics) 30 Vdc by KNX bus

#### Inputs

- 2 freely configurable for passive temperature sensors (10 kΩ NTC at 25°C) or as potential-free binary inputs

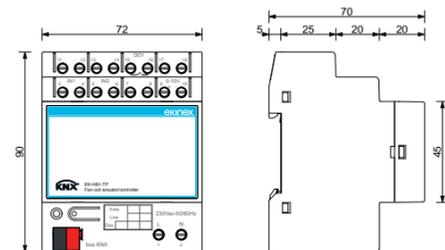
#### Outputs

- 1 to control a brushless motor driven fan with 0-10 V signal
- 1 relay SPST (single pole, single throw) to control an ON / OFF valve (in 2-pipe hydraulic distribution systems)

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-HB1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKHB1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Fancoil actuator / controller full version

THERMOREGULATION

### Description

The Ekinex® EK-HC1-TP fancoil actuator / controller allows to control a fan coil unit for the air conditioning of a room. The device can perform the function of simple actuator in combination with a KNX room thermostat or that of actuator / controller with acquisition of the temperature value by a KNX room sensor or a probe connected to an analog input. The device is suitable for 2 or 4-pipe hydraulic distribution systems with ON / OFF control of one or two electrothermal shut-off valve actuators and a 3-speed fan or a brushless motor driven fan. The outputs not used to control the fan coil unit can be configured as binary output channels for different functions. The device is equipped with 3 inputs freely configurable as analog or digital. The device is fitted with membrane pushbuttons for manual command and LED's for status indication: a pushbutton allows to switch between automatic and manual operation modes. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and requires an additional 230 Vac power supply to operate.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LED's for status indication
- Pushbutton for switching operating mode (normal / programming)
- Connection to bus line with KNX terminal block
- Connection of inputs, outputs and 230 Vac power supply with screw terminals
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Overvoltage class III (according to EN 60664-1)
- Pollution degree 2 (according to IEC 60664-1)
- 35 mm rail mounting (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 205 g

### Technical data

#### Power supply

- Voltage (loads) 230 Vac 50/60 Hz
- Voltage (electronics) 30 Vdc by KNX bus

#### Inputs

- 3 freely configurable for passive temperature sensors (10 kΩ NTC at 25°C) or as potential-free binary inputs

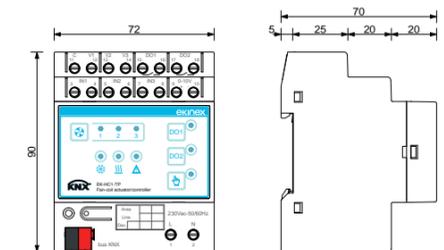
#### Outputs

- 1 to control a brushless motor driven fan with 0-10 V signal
- 3 interlocked relay outputs to control a 3-speed fan (or configurable as binary outputs for different applications)
- 2 relay SPST (single pole, single throw) to control two ON / OFF valves (in 2 or 4-pipe hydraulic distribution systems)

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKHC1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## 8-fold actuator / controller for electrothermal valve drives

THERMOREGULATION



### Description

The Ekinex® EK-HE1-TP actuator / controller allows to control electrothermal actuators or servomotors in hydronic systems for room heating and / or cooling. The device can perform the function of simple actuator in combination with one or more KNX room thermostats or that of actuator / controller with acquisition of the temperature value by one or more KNX sensors. The device is suitable for 2 or 4-pipe hydraulic distribution systems with ON / OFF control of electrothermal shut-off valve actuators. The device is fitted with membrane pushbuttons for manual command and LED's for status indication; a pushbutton allows to switch between automatic and manual operation modes. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and requires an additional 230 Vac power supply to operate.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LED's for status indication
- Pushbutton for switching operating mode (normal / programming)
- Connection to bus line with KNX terminal block
- Connection of outputs and 230 Vac power supply with screw terminals
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Overvoltage class III (according to EN 60664-1)
- Pollution degree 2 (according to IEC 60664-1)
- 35 mm rail mounting (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 160 g

### Technical data

#### Power supply

- Voltage (loads) 230 Vac 50/60 Hz
- Voltage (electronics) 30 Vdc by KNX bus

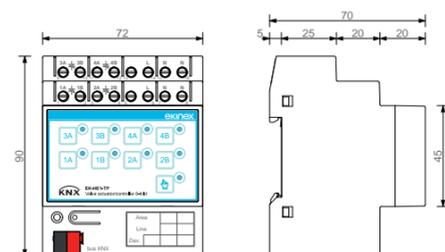
#### Outputs

- 8 TRIAC relays to control ON / OFF zone valve drives

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-HE1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKHE1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)



## Mixing actuator

THERMOREGULATION

### Description

The Ekinex® EK-HH1-TP mixing actuator allows the control of 3 floating points or 0-10 V servo-motor for mixing valves. The flow temperature of the conveying fluid can be set at a fixed point, with external climatic compensation and with external climatic compensation plus internal conditions recalibration. The regulation modes are selectable separately for heating and cooling. The device is particularly suitable for underfloor or ceiling heating and cooling radiant panels applications in combination with Ekinex® room thermostats with integrated temperature and humidity sensor. A 0-10 V output allows the remote setting of a heat pump temperature setpoint value. The startup function enables a radiant floors drying concrete phase according to EN 1264 standard. The membrane keyboard allows the manual command and includes LED's for status indication; the LCD-display allows displaying / setting of the main working parameters. The device integrates a KNX bus communication module and is realized for mounting on a standard 35 mm DIN-rail. The device is supplied by the KNX bus and requires an additional 230 Vac power supply to operate.

### Main features

- Plastic casing
- Frontal programming pushbutton and LED
- Membrane keyboard with LED's for status indication
- Pushbutton for switching operating mode (normal / programming)
- Connection to bus line with KNX terminal block
- Connection of inputs, outputs and 230 Vac power supply with screw terminals
- Classification climatic 3K5 and mechanical 3M2 (according to EN 50491-2)
- Overvoltage class III (according to EN 60664-1)
- Pollution degree 2 (according to IEC 60664-1)
- 35 mm rail mounting (according to EN 60715)
- 8 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 380 g

### Technical data

#### Power supply

- Voltage (loads) 230 Vac 50/60 Hz
- Voltage (electronics) 30 Vdc by KNX bus

#### Inputs

- 3 analogic exclusively for connection of NTC temperature sensors 10 kΩ at 25°C
- 2 configurable as analogic (exclusively for NTC temperature sensors 10 kΩ at 25°C) or digital (potential free)

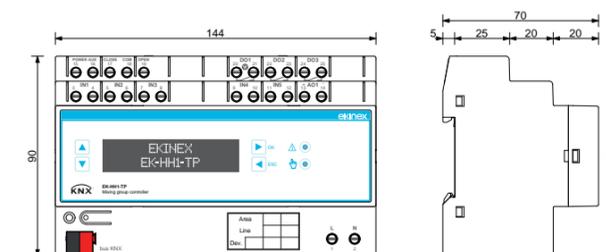
#### Outputs

- 1 for control of a 3 point floating servomotor, 1 A, 250 Vac
- 1 for control of a servomotor with 0-10 V signal connection of high impedance input
- 3 for additional functions, relays 10(5) A, 250 Vac

### Delivery

Delivery includes a terminal block for connection to the bus.

### Dimensions [mm]



### Order information

Code	Package
EK-HH1-TP	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKHH1TP##.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation,  
download from [www.ekinex.com](http://www.ekinex.com)





## NTC 10 kΩ temperature sensors

TEMPERATURE CONTROL

### Description

Temperature sensors with NTC (Negative Temperature Coefficient, 10 kΩ ±1% a 25 °C, β = 3435) sensitive element for temperature measurement, to be used in combination with Ekinex® KNX devices equipped with an analog input (or configurable as [AI]) for temperature measurement.

### Characteristics and Technical data

#### Outdoor version (EK-STE-10K-3435)

- Sensitive element with high IP protection degree casing
- Cable gland (connecting cable not included in delivery)
- Working conditions:
  - operating temperature: -40°C...+100°C
  - relative humidity: 0...100%

#### Immersion version (EK-STI-10K-3435)

- Sensitive element with INOX cylinder casing
- Two-wire connecting cable (length 1,5 m)
- Operating temperature: -40°C...+105°C

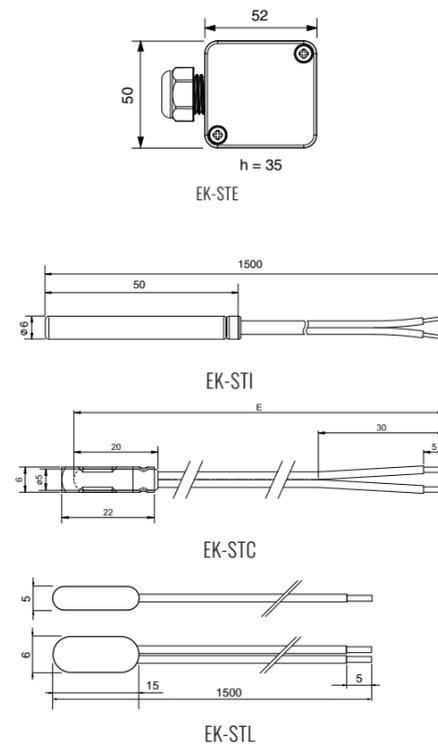
#### Contact version (EK-STC-10K-3435)

- Brass toecap
- Two-wire connecting cable (length 1,5 m)
- Operating temperature: -40°C...+100°C

#### Air mass version (EK-STL-10K-3435)

- Sensor printed directly on the connecting cable
- Two-wire connecting cable (length 1,5 m)
- Operating temperature: -50°C...+105°C

### Dimensions [mm]



### Description

The Ekinex® EK-B01-TP-RMA interface is a modular KNX S-mode device that allows bidirectional communication between the RDZ air handling units, equipped with control board with RS-485 Modbus communication port, and the KNX system (TP). Thanks to the interface, the functions performed by the air handling units can be controlled and monitored by KNX devices. The unit has an integrated KNX bus communication module and is realized for mounting on a 35 mm rail. Power is supplied via the KNX bus.

### Main features

- Plastic housing
- Mounting on 35 mm rail (according to EN 60715)
- Protection degree IP20 (installed device)
- Safety class II
- Weight 70 g
- 2 modular units (1 unit = 18 mm)
- Dimensions 36 x 94 x 71 mm (WxHxD)

### Technical data

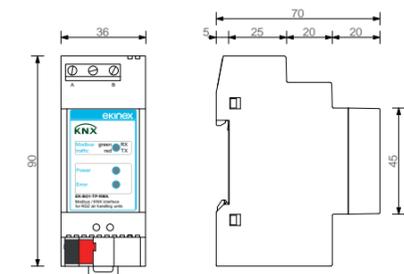
#### Power supply

- 30 Vdc voltage by KNX bus
- Current consumption (from main bus line) < 13 mA

## Modbus / KNX interface for RDZ air handling units

THERMOREGULATION

### Dimensions [mm]



### Order information

Code	Version	Package
EK-STE-10K-3435	outdoor	1 pcs.
EK-STI-10K-3435	immersion	
EK-STC-10K-3435	contact	
EK-STL-10K-3435	air mass	



### Configuration and commissioning

The configuration is necessary for the Ekinex® KNX device connected to the temperature sensor.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Order information

Code	Package
EK-B01-TP-RMA	1 pcs.



### Configuration and commissioning

By means of ETS5 software or later versions  
Application program **APEKBO1TPRMA#.#.knxprod**  
(download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Gateway

DIN-RAIL MOUNT MODULES

EK-BH1-TP-485 Gateway Modbus RS485-KNX | EK-BH1-TP-TCP Gateway Modbus TCP/IP-KNX | EK-BJ1-TP-IP Gateway BACnet IP-KNX | EK-BJ1-TP-MSTP Gateway BACnet MS/TP-KNX | EK-BK1-TP Gateway DMX-KNX | EK-BM1-TP-xx Gateway M-Bus-KNX | EK-BN1-TP Gateway PROFINET-KNX | EK-BG1-TP Gateway DALI-KNX



Auxiliary power supply	•	•	•	•	•	•	•	•
Electrically insulated RS485 serial communication port	•	-	-	•	•	-	-	-
1-way DIP switch to activate the line terminator (120 Ohm)	•	-	-	-	-	-	-	-
Modbus master RTU (Remote Terminal Unit) communication	•	•	-	-	-	-	-	-
BACnet slave communication	-	-	•	-	-	-	-	-
BACnet communication	-	-	-	-	-	-	-	-
PROFINET slave communication	-	-	-	-	-	•	-	-
BACnet records exchange	-	-	•	-	-	-	-	-
PROFINET records exchange	-	-	-	-	-	•	-	-
DMX master communication	-	-	-	•	-	-	-	-
250 kbaud communication speed	-	-	-	•	-	-	-	-
From 1200 to 115200 baud communication speed	•	-	-	•	-	-	-	-
from 3000 to 38400 baud communication speed	-	-	-	-	-	•	-	-
Ethernet (IEEE 802.3) communication port, RJ45 connector	-	•	•	-	-	-	•	•
M-Bus communication port	-	-	-	-	-	•	-	-
Device addressing from 1 to 250	-	-	-	-	-	•	-	-
Device addressing from 0 to 250	•	•	-	-	-	-	-	-
Device addressing from 0 to 512	-	-	-	-	•	-	-	-
Register exchange of Coil, Input, and Input Register Holding Register type	•	•	-	-	-	-	-	-
Reading and writing of single and multiple registers	•	•	-	-	-	-	-	-
1 byte register writing on a maximum of 512 DMX devices	-	-	-	-	•	-	-	-
Volatile support memory with "image Modbus" of 1440 byte	•	•	-	-	-	-	-	-
Volatile support memory with "image BACnet" of 1440 byte	-	-	•	•	-	-	-	-
Volatile support memory with "image M-Bus" of 1440 byte	-	-	-	-	-	•	-	-
Volatile support memory with "image PROFINET" of 1440 byte	-	-	-	-	-	-	•	-
KNX TP (twisted pair) 9600 baud communication port	•	•	•	•	•	•	•	•
Volatile support memory with "image KNX" of 1440 byte	•	•	•	•	•	•	•	•
Additional plug-in program	•	•	•	•	•	•	•	•
Mounting on standard 35 mm rail (EN 60715)	•	•	•	•	•	•	•	•
DALI communication protocol	-	-	-	-	-	-	-	•
Ballast addressing to 64 devices	-	-	-	-	-	-	-	•



### Description

The Ekinex® Modbus RS485 - KNX Gateway performs a protocol conversion between a serial RS485 Modbus RTU and a KNX TP network. The device works as Modbus master. The device integrates a KNX bus communication module and it is suitable for mounting on a 35 mm DIN rail: it requires an auxiliary power supply.

### Main features

- Plastic casing
- Connection to bus line with KNX terminal block
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 145 g

### Technical data

- Power supply: 8...24 Vac or 12...35 Vdc
- Absorption at 24 Vdc: 3,5 VA

### Communication

#### KNX side

- KNX TP (Twisted Pair) communication port electrically isolated from power supply
- 1440-byte volatile support "KNX image" memory buffer

#### Modbus RS485 side

- RS485 serial communication port, electrically isolated from power supply, 120 ohm termination resistance pluggable by a 1-way microswitch
- Modbus master RTU (Remote Terminal Unit) communication
- Selectable baud rate from 1200 to 115200 baud
- Device addressing from 0 to 250
- Coil, Input, Holding Register e Input Register data exchange
- Single and multiple register reading/writing
- 1440-byte volatile support "Modbus image" memory buffer

### Order information

Code	Application	Package
EK-BH1-TP-485	protocol conversion KNX - Modbus RTU	1 pcs.

## Gateway Modbus RS485 - KNX

GATEWAYS

### Configuration

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E

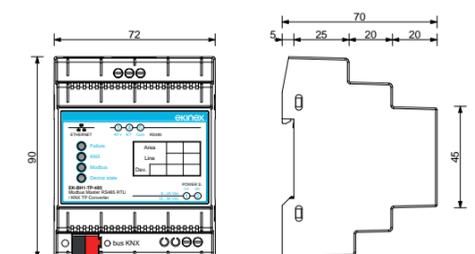
### Delivery

The delivery includes the device and terminal blocks to connect to the KNX bus.

### Other information

Modbus® is an open source, standard communication protocol suitable for master / slave data exchange between smart devices in various applications, such as industrial production, infrastructure, transportation and energy management.

### Dimensions [mm]



### Configuration and commissioning

By means of software tool **CGEKBH1TP485.exe** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Gateway Modbus TCP/IP - KNX

GATEWAYS

### Description

The Ekinex® Modbus TCP/IP - KNX Gateway performs a protocol conversion between a Modbus RTU over TCP / IP and a KNX TP network. The device works as Modbus master. The device integrates a KNX bus communication module and it is suitable for mounting on a 35 mm DIN rail; it requires an auxiliary power supply.

### Main features

- Plastic casing
- Connection to bus line with KNX terminal block
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 145 g

### Technical data

- Power supply: 8...24 Vac or 12...35 Vdc
- Absorption at 24 Vdc: 3,5 VA

### Communication

#### KNX side

- KNX TP (Twisted Pair) communication port electrically isolated from power supply
- 1440-byte volatile support "KNX image" memory buffer

#### Modbus TCP/IP side

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E.Communication Modbus master RTU (Remote Terminal Unit)
- Device addressing from 0 to 250
- Coil, Input, Holding Register e Input Register data exchange
- Single and multiple register reading/writing
- 1440-byte volatile support "Modbus image" memory buffer

### Configuration

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E.

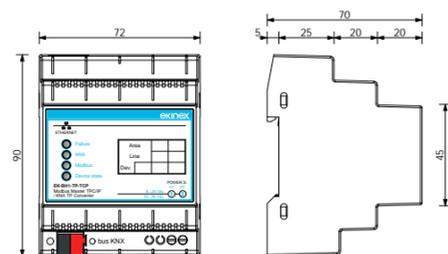
### Delivery

The delivery includes the device and terminal blocks to connect to the KNX bus.

### Other information

Modbus® is an open source, standard communication protocol suitable for master/slave data exchange between smart devices in various applications, such as industrial production, infrastructure, transportation and energy management.

### Dimensions [mm]



### Configuration and commissioning

By means of software tool **CGEKBH1TPTCP.exe** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Order information

Code	Application	Package
EK-BH1-TP-TCP	protocol conversion KNX - Modbus RTU	1 pcs.



## Gateway BACnet - KNX

GATEWAYS

### Description

The Ekinex® BACnet - KNX Gateway performs a protocol conversion between a BACnet and a KNX TP network. Two versions are available: BACnet MS/TP (master-slave / token-passed) over serial RS485 network and BACnet IP over Ethernet. The device integrates a KNX bus communication module and it is suitable for mounting on a 35 mm DIN rail; it requires an auxiliary power supply.

### Main features

- Plastic casing
- Connection to bus line with KNX terminal block
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 145 g

### Technical data

- Power supply: 8...24 Vac or 12...35 Vdc
- Absorption at 24 Vdc: 3,5 VA

### Communication

#### KNX side

- KNX TP (Twisted Pair) communication port electrically isolated from power supply
- 1440-byte volatile support "KNX image" memory buffer

#### BACnet (MS/TP version) side

- RS485 serial communication port, electrically isolated from power supply, 120 ohm termination resistance pluggable by a 1-way microswitch
- BACnet communication
- Selectable baud rate from 1200 to 115200 baud
- BACnet objects exchange
- 1440-byte volatile support "BACnet image" memory buffer

### BACnet side (IP version)

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E.Communication BACnet slave
- BACnet objects exchange
- 1440-byte volatile support "BACnet image" memory buffer

### Configuration

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E.

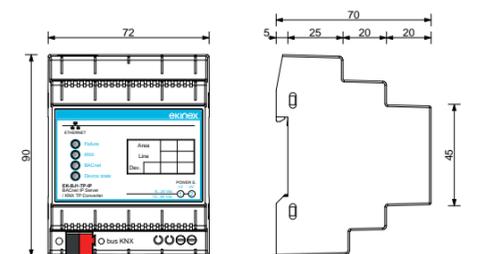
### Delivery

The delivery includes the device and terminal blocks to connect to the KNX bus.

### Other information

BACnet® is an ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) trademark.

### Dimensions [mm]



### Configuration and commissioning

By means of software tool **CGEKBJ1TP.exe** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



MS/TP IP



## Gateway DMX - KNX

GATEWAYS

### Description

The Ekinex® DMX - KNX Gateway performs a protocol conversion between a serial RS485 DMX and a KNX TP network. The device works as DMX master. The device integrates a KNX bus communication module and it is suitable for mounting on a 35 mm DIN rail; it requires an auxiliary power supply.

### Main features

- Plastic casing
- Connection to bus line with KNX terminal block
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 145 g

### Technical data

- Power supply: 8...24 Vac or 12...35 Vdc
- Absorption at 24 Vdc: 3,5 VA

### Communication

#### KNX side

- KNX TP (Twisted Pair) communication port electrically isolated from power supply
- 1440-byte volatile support "KNX image" memory buffer

#### DMX side

- RS485 serial communication port, electrically isolated from power supply, 120 ohm termination resistance pluggable by a 1-way microswitch
- DMX master communication
- Baud rate 250 kbaud
- Device addressing from 0 to 512
- 1-byte register writing on max 512 DMX devices

### Configuration

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E

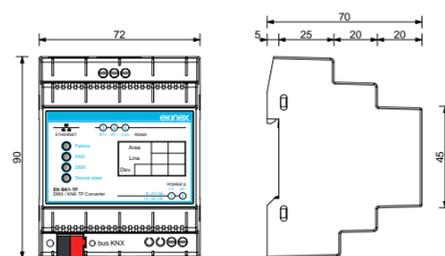
### Delivery

The delivery includes the device and terminal blocks to connect to the KNX bus.

### Other information

DMX512 is a standard for asynchronous serial transmission of digital data between controllers, devices and accessories for the light industry, approved by ANSI (American National Standards Institute) and supported by ESTA (Entertainment Services and Technology Association).

### Dimensions [mm]



### Configuration and commissioning

By means of software tool **CGEKBK1TP.exe** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Order information

Code	Application	Package
EK-BK1-TP	protocol conversion KNX - DMX512	1 pcs.



## Gateway M-Bus - KNX

GATEWAYS

### Description

The Ekinex® M-Bus - KNX Gateway performs a protocol conversion between an M-Bus and a KNX TP network. The device acts as M-Bus master. Versions for networks with a maximum number of 20, 40, 80 and 160 connected M-Bus slave devices are available. The device integrates a KNX bus communication module and it is suitable for mounting on a 35 mm DIN rail; it requires an auxiliary power supply.

### Main features

- Plastic casing
- Connection to bus line with KNX terminal block
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 145 g

### Technical data

- Power supply: from M-Bus network
- Absorption at 24 Vdc: 3,5 VA (without load); 4, 5, 8 or 14 VA (resp. with 20, 40, 80 or 160 M-Bus devices)

### Communication

#### KNX side

- KNX TP (Twisted Pair) communication port electrically isolated from power supply
- Baud rate 9600 baud
- 1440-byte volatile support "KNX image" memory buffer

#### M-Bus side

- M-Bus communication port (wired version, two-pole cable)
- Selectable baud rate from 300 to 9600 baud
- Device addressing from 1 to 250
- Variable reading through M-Bus slave device mapping
- 1440-byte volatile support "M-Bus image" memory buffer

### Configuration

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E

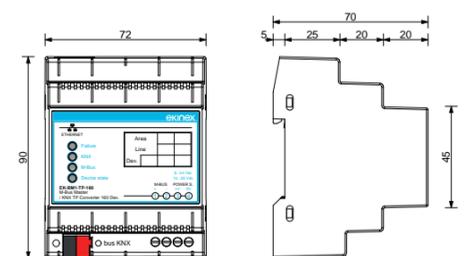
### Delivery

The delivery includes the device and terminal blocks to connect to the KNX bus.

### Other information

M-Bus (Meter-Bus) is a standard protocol for remote reading of data acquired from thermal energy, electricity, gas and water meters. M-Bus is fully compliant with EN 13757: Communication Systems for remote meter reading, parts 2 (Physical and connection layer) and 3 (Application layer).

### Dimensions [mm]



### Configuration and commissioning

By means of software tool **CGEKBK1TP.exe** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Order information

Code	Version	Package
EK-BM1-TP-20	max 20 slave devices	1 pcs.
EK-BM1-TP-40	max 40 slave devices	1 pcs.
EK-BM1-TP-80	max 80 slave devices	1 pcs.
EK-BM1-TP-160	max 160 slave devices	1 pcs.



## Gateway PROFINET - KNX

GATEWAYS

### Description

The Ekinex® PROFINET - KNX Gateway performs a protocol conversion between a PROFINET and a KNX TP network. The device acts as slave of PROFINET communication. The device integrates a KNX bus communication module and it is suitable for mounting on a 35 mm DIN rail; it requires an auxiliary power supply.

### Main features

- Plastic casing
- Connection to bus line with KNX terminal block
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)
- Weight 145 g

### Technical data

- Power supply: 8...24 Vac or 12...35 Vdc
- Absorption at 24 Vdc: 3,5 VA

### Communication

#### KNX side

- KNX TP (Twisted Pair) communication port electrically isolated from power supply
- 1440-byte volatile support "KNX image" memory buffer

#### PROFINET side

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E. Communication PROFINET slave
- PROFINET data exchange
- 1440-byte volatile support "PROFINET image" memory buffer

### Configuration

- Ethernet communication port (IEEE 802.3), RJ45 connector, minimum cable category: 5E.

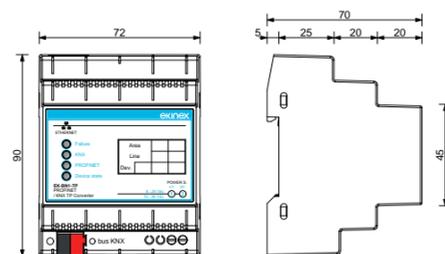
### Delivery

The delivery includes the device and terminal blocks to connect to the KNX bus.

### Other information

PROFINET (Process Field Net) is an open source, Ethernet based (IEEE 802.xx) standard communication protocol, suitable for data exchange between field devices in industrial and process automation applications. The standard is supported by PROFIBUS & PROFINET International (PI) association.

### Dimensions [mm]



### Order information

Code	Application	Package
EK-BN1-TP	protocol conversion KNX - PROFINET	1 pcs.



### Configuration and commissioning

By means of software tool **CGEKBN1TP.exe** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Gateway DALI - KNX

GATEWAYS



### Description

The Ekinex® DALI - KNX Gateway allows the control of the devices present in a DALI network from a KNX TP network. The device has an integrated KNX bus communication module and integrates the power supply stage for the DALI bus.

### Main features

- Connection to the KNX bus line with standard KNX terminal block
- Plastic casing
- Installation on 35 mm rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- IP20 protection degree (installed device)

### DALI functions

- Control of up to 64 DALI devices in up to 16 groups
- Up to 16 light Scenes
- Broadcast function
- Individual, group or central addressing
- Suitable for operation in emergency lighting systems
- Readout of DALI device status via KNX (e.g. brightness or device error)

### Configuration

- Application program for ETS v.5 for the configuration of the KNX functions of the device
- PC application program for the configuration of the device and of DALI appliances

### Connections

- KNX port with standard connector
- Screw terminals (doubled) for the DALI bus
- Ethernet port (IEEE 802.3), RJ45 connector, category 5E cable (or higher)

### Technical data

- Device power supply: 230 Vac
- Power supply output for the DALI bus: 12 VDC 250mA

### Delivery

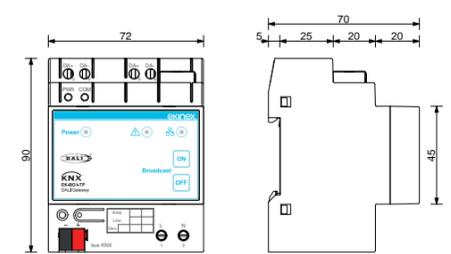
The delivery includes the device and terminal blocks to connect to the KNX bus.

### Other information

DALI® (Digital Addressable Lighting Interface) is a worldwide standard protocol for lighting control interfacing systems, whose data exchange protocol is compliant with IEC 62386. DALI is a trademark of ZVEI (Zentralverband Elektrotechnik- und Elektronikindustrie e.V.).

### DALI2 version available with firmware update 3.0.0

### Dimensions [mm]



### Order information

Code	Application	Package
EK-BG1-TP	protocol conversion KNX - DALI	1 pcs.



### Configuration and commissioning

By means of the PC software **CGEKBG1TP.exe** and the ETS v.5 application program **APEKBG1TP##.knxprod** (download both from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Voice control interface - KNX

GATEWAY

### Description

Device with interface function between a KNX network (TP, twisted pair) and home speakers equipped with Amazon Alexa or Google Assistant. The interface, connected to Ekinex cloud services, is suitable for the control by voice commands of light, climate and motorization of a modern KNX standard building. The product is designed for installation on DIN profile rail and occupies 2 modules. The 12-24 Vdc power supply is external (power supply not included in the supply). The product with hardware based on embedded operating system, has a KNX TP node (twisted pair) and can therefore be connected directly to the bus network of KNX devices. The external connectivity is realized through the Ethernet port that connects the device directly to the home router.

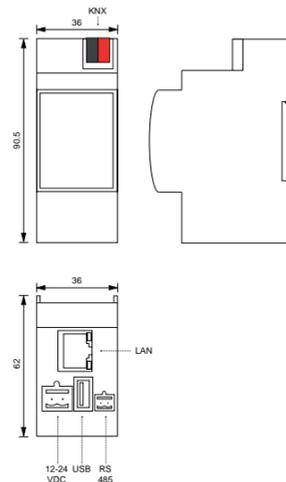
The integrated web server provides access to the configuration environment and provides the following functions:

- Interface network settings
- Registration and subscription to Ekinex cloud services
- Automatic import of the ETS project and merging with previous imports
- Configuration of voice control accessories (max 150 accessories): lighting (on/off, dimmed and RGB), motorizations (open/close stop and position) and climate
- Configuration of action sequences on the KNX bus, which can be called up as scenarios by voice assistants
- Configuration of the IFTTT (If This Than That) cloud platform for the creation of association rules between events on the KNX bus and compatible services (e.g. sending e-mail)
- On the Amazon Alexa and Google Assistant apps, the Ekinex skill and action are available respectively for the complete configuration of the service.

### Main features

- 12-24 Vdc power supply (absorption 240 mA at 12 Vdc) by means of a special plug-in terminal supplied. Power supply not included
- KNX TP bus (twisted pair) via red-black terminal provided
- 1 Ethernet port via cat. 5 or higher cable and standard RJ45 connector
- 2 frontal LEDs: POWER LED for signalling the presence of power supply; SERVICE LED for signalling particular operations in progress.
- 1 RESET button housed under the front cover on the back of the vertical card
- 1 RS485 port: not used
- 1 USB 2.0 port: not used

### Dimensions [mm]



### Configuration and commissioning

Through internet browser configurable both locally and remotely via cloud access.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## Konnect4 - KNX

GATEWAY

### Description

Modular KNX S-mode device with advanced IP-KNX interface function and integrated webserver. It offers a range of connectivity and functional services to a Control4 supervision system in installations with Ekinex KNX devices.

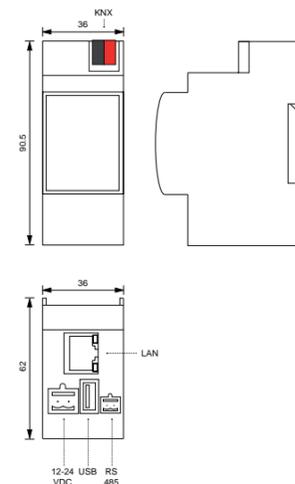
### Main features

- IP-KNX gateway
- ETS project import
- Sending/receiving commands from KNX devices within the Control4 system
- Programming of command sequences (scenes) and execution with simple connections in COMPOSER PRO using specific drivers
- Execution of logics that can be configured with a graphic editor and run in the background
- KNX diagnostics with notification sent to CONTROL4 in the event of malfunctions or configurable events on the KNX bus
- Load management and monitoring of electricity consumption with management dependent on global current absorption, using specific Control4 drivers

### Technical data

- Power supply 12/24 Vdc
- Power consumption 3W (240mA at 12V)
- Ethernet LAN connection port
- Plastic housing
- Design for 35 mm mounting rail (according to EN 60715)
- Degree of protection IP20 (according to EN 60529)
- Insulation class II (according to EN 60335-1)
- Weight 70 g
- 2 UM modular device (1 UM = 18 mm)
- Dimensions 36 x 94 x 71 mm (W x H x D)

### Dimensions [mm]



### Order information

Code	Application	Package
EK-BR1-TP	KNX and/or Control4 interface	1 pcs.



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





# CoolMasterNet with integrated KNX module

GATEWAY

## Metering

DIN-RAIL MOUNT MODULES

### Description

CoolMasterNet Ekinex® is a plug and play interface for bidirectional data exchange between the KNX home automation system and the bus communication system dedicated to air conditioning through VRV / VRF and splits. CoolMasterNet allows the KNX system to individually monitor and control all the units connected to the bus system dedicated to air conditioning. The LCD touch-screen also allows the direct control of every unit. Among the available\* controls there are:

- on/off
- mode (Cool, Heat, Auto, Fan)
- fan speed
- temperature setpoint
- room temperature feedback
- error code

The dedicated CoolRemote App allows the remote login via web through smartphone, tablet or PC to verify the status of the system and possible error codes (where available) and perform basic controls such as on/off (individual or collective), setup of the temperature setpoint, selection of the operating mode and fan speed. The device is equipped with communication lines for the following manufacturers: Mitsubishi Electric, Daikin, Toshiba, Panasonic, Sanyo, Hitachi, Mitsubishi Heavy Industries, LG, Samsung, and Gree. The device integrates a KNX bus communication module and is realized for wall-mounting. The device is powered by a SELV 12-24 Vdc voltage.

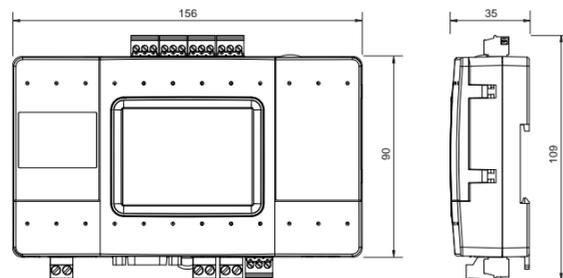
### Main features

- Plastic material
- Colour LCD touch-screen display
- Green (on/off connection) and orange (Tx/Rx indication) LED
- Connection to bus line with KNX terminal block
- RS232 (ASCII), RS485 (Modbus RTU), Ethernet (ASCII, Modbus IP), mini USB (maintenance) ports
- Wall-mounting
- Weight 270 g

### KNX module

- Pre-installed in factory
- Activated through assignment of L3 communication line
- 128 default group addresses (expandable to 1.024)

### Dimensions [mm]



### Configuration and commissioning

By means of application program **Quickinstall** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



	EK-ME1-MDB Network analyzer (basic)	EK-MEK-xx Kit network analyzer (enhanced) and Rogowski coils	EK-ME1-06T 6 A three-phase MID energy meter	EK-ME1-80M 80 A single-phase MID energy meter	EK-ME1-80T 80 A three-phase MID energy meter	EK-MC1-MD Modbus communication module
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Three-phase energy meter	•	•	•	-	•	-
Single-phase energy meter	-	-	-	•	-	-
Direct connection	-	-	•	•	•	-
Rogowski coil	•	•	-	-	-	-
Fully bi-directional four quadrants measurements for all energies and powers	•	•	•	•	•	-
Main electrical parameters measured and displayed for a cost-effective consumption analysis	•	•	-	-	-	-
For 3 / 4 wire networks with balanced or unbalanced load	•	•	•	-	•	-
Class B according to EN 50470-3	-	-	•	•	•	-
Tariff Input	-	-	•	•	•	-
2 SO outputs for energy pulse emission	-	-	•	•	•	-
1 configurable digital output	•	•	-	-	-	-
Possibility to record MIN / AVG / MAX values for all powers	•	•	-	-	-	-
LCD-Display	•	•	•	•	•	-
Optical port for communication	-	-	•	•	•	-
Sealable cover to prevent tampering	•	•	•	•	•	-
MID Certificate	-	-	•	•	•	-
Modbus RTU (8N1) and ASCII (7E2) protocol	•	•	-	-	-	•
- RS485 port	-	-	-	-	-	•
- Communication speed: 300 ÷ 115200 bps	-	-	-	-	-	•
- Termination resistor integrated in the module	-	-	-	-	-	•
- Optical port for communication	-	-	-	-	-	•
- Communication speed: 38400 bps	-	-	•	•	•	-
KNX protocol	-	-	-	-	-	-
- Communication speed: 9600 bps	-	-	-	-	-	-
Plug-in software	•	•	-	-	-	-
Mounting on standard 35 mm rail (EN 60715)	•	•	•	•	•	•



## Network analyzer

METERING

### Description

The Ekinex® network analyzer EK-ME1-MDB is a three-phase multifunctional instrument for measurement and recording of electrical parameters with separate inductive and capacitive counters. Delivery includes a digital output (DO) and a RS485 serial port for communication over Modbus RTU/ASCII protocol. Possibility to update the firmware version remotely is given. The device is suitable for mounting on a 35 mm DIN rail; it requires an auxiliary power supply.

### Functions

- Fully bidirectional four quadrants measurements for all energies and powers
- Main electrical parameters measured and displayed for a cost effective consumption analysis
- Version for 1 or 5A CT
- 1 MB for data recording
- Possibility to record average values for active & reactive powers
- Modbus RTU / ASCII communication by RS485 port
- Possibility to manage the instrument in remote mode by WintoolNETME1 software

### Main features

- Plastic casing
- Backlighted LCD-Display , 43 x 29 mm 3 rows, 4 digits + symbols
- Keyboard: 3 front buttons + 1 protected button
- Screw terminal blocks connection
- Installation on 35 mm DIN rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- Protection degree IP20 (installed device)
- Weight 310 g

### Technical data

#### Power supply

- Voltage range: 85...265 Vac
- Max consumption: 1,6 VA - 1 W

#### Voltage inputs

- Voltage range: 3x10 / 17 ... 3x285 / 495 Vac, Cat III 300 V

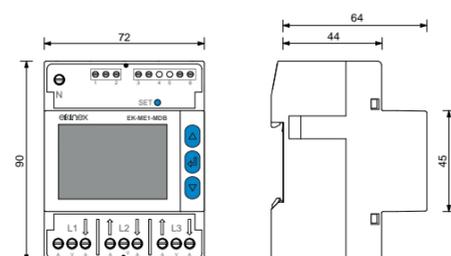
#### Current inputs

- Maximum value: 6 A

#### Digital output (DO)

- Type: Passive optoisolated
- Maximum values (according to IEC / EN 62053-31): 27 Vdc - 27 mA

### Dimensions [mm]



## Kit with network analyzer and Rogowski coils

METERING

### Description

The kit Ekinex® EK-MEK includes a EK-ME1-MDE network analyzer (enhanced version) and three sensors for measurement and recording of Rogowski current. Sensors are available with the following lengths: 300, 450 and 700 mm.

### Functions (network analyzer)

- Fully bidirectional four quadrants measurements for all energies and powers
- Main electrical parameters measured and displayed for a cost effective consumption analysis
- Version for 1 or 5A CT
- 8 MB for data recording
- Possibility to record MIN / AVG / MAX for instantaneous parameters
- Possibility to record all energy counters
- Modbus RTU / ASCII communication by RS485 port
- Possibility to manage the instrument in remote mode by WintoolNETME1 software

### Main features

#### Network analyzer

- Plastic casing
- Backlighted LCD-Display , 43 x 29 mm 3 rows, 4 digits + symbols
- Keyboard: 3 front buttons + 1 protected button
- Screw terminal blocks connection
- Installation on 35 mm DIN rail (according to EN 60715)
- 4 modular units (1 MU = 18 mm)
- Protection degree IP20 (installed device)
- Weight 260 g

### Rogowski coils

#### Transducer

- Coil length: 30, 45 or 70 cm
- Wire diameter: 8,3 ± 0,2 mm
- Closing: bayonet
- Weight: from 150 to 500 g
- Material: thermoplastic UL94-V0

### Electrical features

- Output level (RMS): 100 mV / 1 kA @50Hz (standard)
- Transducer resistance: from 70 to 900 Ω
- Position error: less than ±1% of reading (with wire diameter = 15 mm)
- Frequency: around 40 Hz at 20 kHz
- Operating voltage: 1000 VRMS CAT III, 600 VRMS CAT IV
- Pollution degree 2
- Test voltage: 7400 VRMS / 1 min

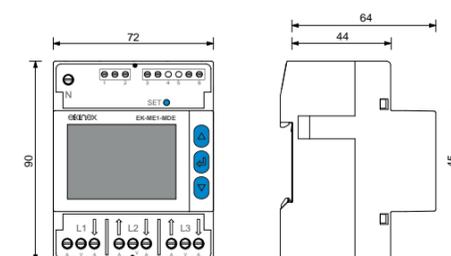
### Connection wires

- Type: 2 x 0,15 mm shielded
- Length: 300 cm

### Delivery

Delivery includes a network analyzer and 3 Rogowski coils.

### Dimensions [mm]



### Order information

Code	Device	Package
EK-ME1-MDB	Network analyzer in enhanced version	1

**Remote management**  
By means of the software tool **WintoolNETME1** (download from [www.ekinex.com](http://www.ekinex.com))

**Documentation**  
For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Order information

Code (kit)	Device	Sensors
EK-MEK-30	Network analyzer (enhanced version)	3 Rogowski coils 30 cm length
EK-MEK-45		3 Rogowski coils 45 cm length
EK-MEK-70		3 Rogowski coils 70 cm length

**Remote management**  
By means of the software tool **WintoolNETME1** (download from [www.ekinex.com](http://www.ekinex.com))

**Documentation**  
For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## 80 A MID single phase energy meter

METERING

### Description

The 80 A single-phase compact energy meter Ekinex® EK-ME1-80M performs the measurement of energy and main electrical parameters in industrial and civilian application. The backlighted LCD allows to display energies and instantaneous powers. Delivery includes a tariff input and two SO outputs for energy pulse emission. The device is also equipped with an optical port for communication with other systems as well as Ekinex® Modbus RS485 (EK-MC1-MD) and KNX (EK-MC1-TP) communication modules. It has MID certification for billing, metrological LED on the front panel and lateral anti-effraction sealing. The device is suitable for mounting on a 35 mm DIN rail.

### Functions

- Fully bidirectional four quadrants measurements for all energies and powers
- Direct connection up to 80 A

### Main features

- Plastic casing
- Backlighted LCD-Display with 7 main digits
- Screw terminal blocks connection
- Installation on 35 mm DIN rail (according to EN 60715)
- Protection degree IP20 (installed device)
- 2 modular units (1 MU = 18 mm)
- Weight 200 g

### Technical data

#### Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage  $\pm 20\%$
- Max consumption: 7,5 VA - 0,5 W

#### Voltage

- 230...240 V 50 / 60 Hz (nominal values)

### Current

- Starting current  $I_{st}$ : 20 mA
- Minimum current  $I_{min}$ : 250 mA
- Transition current  $I_{tr}$ : 500 mA
- Reference current  $I_{ref}$  (Ib): 5 A
- Maximum current  $I_{max}$ : 80 A

### Accuracy

- Active energy class B according to EN 50470-3
- Reactive energy class 2 according to IEC / EN 62053

### SO outputs

- 2 passive optoisolated
- Maximum values: 250 Vac-dc - 100 mA
- Pulse length: 50  $\pm$  2 ms ON time

### Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 Vac-dc

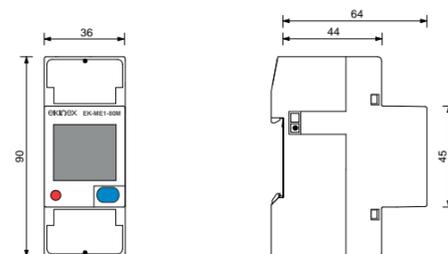
### Metrological LED

- Meter constant: 10000 imp / kWh

### Delivery

Delivery includes a sealable cover for terminal blocks.

### Dimensions [mm]



### Monitoring

By means of the software tool **Ekinex® Modbus Master** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



## 6 A MID three phase energy meter

METERING

### Description

The 6 A three-phase compact energy meter Ekinex® EK-ME1-06T performs the measurement of energy and main electrical parameters in industrial and civilian application. The backlighted LCD allows to display energies and instantaneous powers. Delivery includes a tariff input and two SO outputs for energy pulse emission. The device is also equipped with an optical port for communication with other systems as well as Ekinex® Modbus RS485 (EK-MC1-MD) and KNX (EK-MC1-TP) communication modules. It has MID certification for billing, metrological LED on the front panel and lateral anti-effraction sealing. The device is suitable for mounting on a 35 mm DIN rail.

### Functions

- Fully bidirectional four quadrants measurements for all energies and powers
- Version for 1 or 5A CT (programmable CT value)
- For 3 / 4 wire networks with balanced or unbalanced load

### Main features

- Plastic casing
- Backlighted LCD-Display with 8 main digits
- Screw terminal blocks connection
- Installation on 35 mm DIN rail (according to EN 60715)
- Protection degree IP20 (installed device)
- 4 modular units (1 MU = 18 mm)
- Weight 320 g

### Technical data

#### Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage  $\pm 20\%$
- Max consumption: 7,5 VA - 0,5 W
- CT burden (for each phase): 0,04 VA

#### Voltage and frequency

- 3x230 / 400 3x240 / 415 V 50 / 60 Hz (nominal values)

### Current

- Starting current  $I_{st}$ : 2 mA
- Minimum current  $I_{min}$ : 10 mA
- Transition current  $I_{tr}$ : 50 mA
- Reference current  $I_{ref}$  (Ib): 1 A
- Maximum current  $I_{max}$ : 6 A

### Accuracy

- Active energy class B according to EN 50470-3
- Reactive energy class 2 according to IEC / EN 62053

### SO outputs

- 2 passive optoisolated
- Maximum values: 250 Vac-dc - 100 mA
- Pulse length: 50  $\pm$  2 ms

### Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 Vac-dc

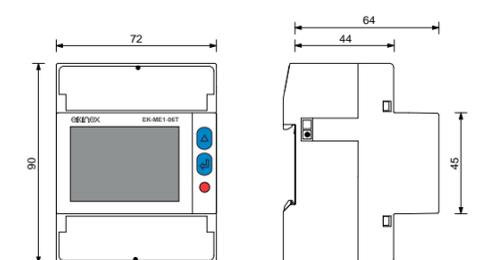
### Metrological LED

- Meter constant: 10000 imp / kWh

### Delivery

Delivery includes a sealable cover for terminal blocks.

### Dimensions [mm]



### Monitoring

By means of the software tool **Ekinex® Modbus Master** (download from [www.ekinex.com](http://www.ekinex.com))



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## 80 A MID three phase energy meter

METERING

### Description

The 80 A three-phase compact energy meter Ekinex® EK-ME1-80T performs the measurement of energy and main electrical parameters in industrial and civilian application. The backlighted LCD allows to display energies and instantaneous powers. Delivery includes a tariff input and two SO outputs for energy pulse emission. The device is also equipped with an optical port for communication with other systems as well as Ekinex® Modbus RS485 (EK-MC1-MD) and KNX (EK-MC1-TP) communication modules. It has MID certification for billing, metrological LED on the front panel and lateral anti-effraction sealing. The device is suitable for mounting on a 35 mm DIN rail.

### Functions

- Fully bidirectional four quadrants measurements for all energies and powers
- Direct connection up to 80 A
- For 3 / 4 wire networks with balanced or unbalanced load

### Main features

- Plastic casing
- Backlighted LCD-Display with 8 main digits
- Tariff input
- 2 SO outputs for energy pulse emission
- Optical port for communication with external modules
- Screw terminal blocks connection
- Installation on 35 mm DIN rail (according to EN 60715)
- Protection degree IP20 (installed device)
- 4 modular units (1 MU = 18 mm)
- Weight 435 g

### Technical data

#### Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ± 20%
- Max consumption: 7,5 VA - 0,5 W

#### Voltage and frequency

- 3x230 / 400 3x240 / 415 V 50 / 60 Hz (nominal values)

#### Order information

Code	Package
EK-ME1-80T	1 pcs.

### Current

- Starting current  $I_{st}$ : 20 mA
- Minimum current  $I_{min}$ : 250 mA
- Transition current  $I_{tr}$ : 500 mA
- Reference current  $I_{ref}$  (Ib): 5 A
- Maximum current  $I_{max}$ : 80 A

### Accuracy

- Active energy class B according to EN 50470-3
- Reactive energy class 2 according to IEC / EN 62053

### SO outputs

- 2 passive optoisolated
- Maximum values: 250 Vac-dc - 100 mA
- Pulse length: 50 ± 2 ms ON time

### Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 Vac-dc

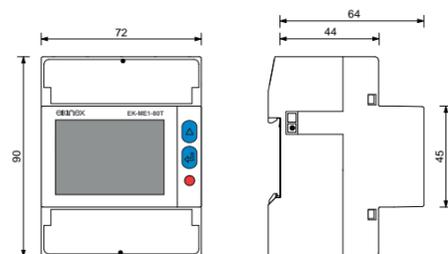
### Metrological LED

- Meter constant: 10000 imp / kWh

### Delivery

Delivery includes a sealable cover for terminal blocks.

### Dimensions [mm]



#### Monitoring

By means of the software tool **Ekinex® Modbus Master** (download from [www.ekinex.com](http://www.ekinex.com))



#### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Description

The Ekinex® RS485 Modbus communication module EK-MC1-MD collects and transmits, through Modbus RTU or ASCII protocol, measurement data of Ekinex® single and three phase energy meters. Data transmission between meter and communication module is performed through the integrated optical port. Change of RS485 parameters is made directly on the combined meter or by sending the proper Modbus protocol commands to the module. The device is suitable for mounting on a 35 mm DIN rail.

### Main features

- Plastic casing
- Set default pushbutton to restore all parameters to the factory settings
- Frontal LED for Power (POWER) and Communication (ACT / ERR) status
- Bus line connection through KNX terminal block
- Installation on 35 mm DIN rail (according to EN 60715)
- 1 modular unit (1 MU = 18 mm)
- Protection degree IP20 (installed device)
- Weight 65 g

### Technical data

#### Power supply

- Nominal voltage: 230 Vac ± 20% / 50 Hz
- Max repetitive voltage: 300 Vac
- Max non repetitive voltage peak: 320 Vac (20 ms)
- Consumption: max 5 VA

#### Order information

Code	Application	Package
EK-MC1-MD	Transmission over Modbus of data measured by Ekinex® meters	1 pcs.

## Modbus communication module

METERING

### Communication

#### Modbus side

- Protocol: Modbus RTU (8N1) and ASCII (7E2)
- Port: RS485
- Communication speed: 300...115200 bps
- Termination resistor integrated in the module

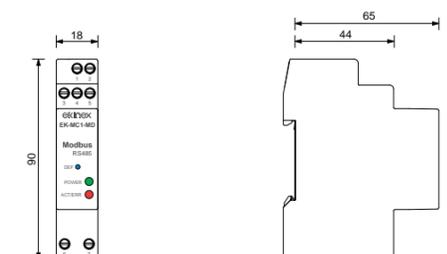
#### Meter side

- Type: serial, optical port
- Communication speed: 38400 bps

### Delivery

Delivery includes a terminal block for connecting the bus line.

### Dimensions [mm]



#### Monitoring

By means of the software tool **Ekinex® Modbus Master** (download from [www.ekinex.com](http://www.ekinex.com))



#### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





## Terminal blocks

ACCESSORIES

### Description

Terminal block for the connection of KNX bus lines or SELV auxiliary power supply. It allows the connection of max. 4 pairs of wires. To be used also as distribution terminal in wall boxes.

### Colour coding

- EK-MNR-TP: red = + (positive), black = - (negative)
- EK-MGB-TP: yellow = + (positive), white = - (negative)

### Main features

- 4 plug-in seats for each polarity
- Fast spring connection
- Suitable for solid wire diameter 0,6÷0,8 mm
- Mechanical coding for terminal block housing on devices
- Wire strip length (advised) 5-6 mm

### Order information

Code	Colour coding	Use	Package
EK-MNR-TP	red/black	bus connection	50
EK-MGB-TP	yellow/white	SELV connection	50

### Technical data

- Nominal voltage 100 V
- Nominal current 6 A

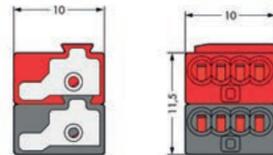
### Delivery

Package of 50 pieces.

### Note

A terminal block for the connection of KNX bus line (EK-MNR-TP) is supplied with every Ekinex® device. A terminal block for the connection of SELV auxiliary power supply is supplied along with EK-AG1-TP power supply and Touch&See unit.

### Dimensions [mm]



EK-MNR-TP



EK-MGB-TP



## Bus cable

ACCESSORIES

### Description

The bus cable LSHF (Low Smoke Halogen Free) is a twisted pair cable for the connection of KNX bus devices and the derivation of KNX bus lines. It is available with a single pair of wires with a diameter of 0.8 mm. Screen in aluminium foil. For use in dry interior.

### Main features

- Cable for KNX based applications (TP)
- Single pair of wires Ø 0,8 mm
- Black/red wires for KNX bus line connection
- Yellow/white wires for auxiliary SELV or spare power supply

### Order information

Code	Type	Use	Package [m]
EK-112-TP	1 x 2 x 0,8	bus connection	100
EK-114-TP	2 x 2 x 0,8	bus connection and spare pair	100

### Technical data

- Nominal voltage: 50 V
- Test voltage: 4 kV

### Delivery

100 m bundle covered with cellophane.



EK-112-TP



EK-114-TP

*deleogo*  
does it for you

## SUPERVISION

Ekinex Delégo: the system	317
Renewed graphic interface	318
Simplified configuration and maintenance	321
Complete versatility	322
Main features - Licenses	323
Delégo server	324
Delégo panel	325





## Ekinex Delégo: the system

### SUPERVISION

Delégo is a system for the supervision and control of a KNX home automation system. Developed with web-oriented technologies, it has a uniform interface with high graphical impact on every platform, both desktop (PC) and mobile (Apple iOS and Android devices), with both local and remote connection. The system consists of a compact server (based on Linux operating system) to be installed in an electrical box: the device connects directly to the KNX bus via twisted pair; the connection to the home router is made via the Ethernet port on your local network (LAN).

The user can interact with the system either by means of mobile devices, or with one or more fixed stations, by means of Delégo panel a touch-panel with elegant and minimal design, for wall installation, connected via Ethernet port on its local network (LAN). The Delégo supervision system is characterized by a simple and at the same time extremely complete configuration, thanks to the direct import of the ETS project file. The functional definition of the various imported domotic objects and the correspondence with a rich and customizable set of controls (widgets) for the user, is also very straightforward.

The renewed interface is simple and intuitive and allows the user to interact with the home automation system of his smarthome through the use of different devices, with absolute uniformity of use. The app allows you to remotely control lights, climate, automatism, audio/video equipment, shutters and more with a simple touch, from a single device and from anywhere in the building reached by the Wi-Fi network, or remotely via web connection.



## Renewed graphic interface

### SUPERVISION

The redesigned visual interface can be accessed either via an app for smartphone and tablet (supported operating systems: Apple iOS and Android) or from a desktop PC workstation. All the devices can be interfaced with the server previously configured so that all the functions of the automation system can be controlled and viewed. The app, accessible from mobile devices (smartphones and tablets) or fixed devices (Delégo panel), is structured for the logical vision of the building, by areas or services. The supervision with desktop PC also allows the visualization with synoptic: the plan of the space can be associated, following the physical location, with the set of available services.

#### VISUALIZATION BY AREAS

The app will display a list of configured areas, each identified by an image inserted in the web configurator during the commissioning phase:

In each area set through the web configurator (for example: living room, bedroom, kitchen) the user can choose whether to turn on or off the lights, or to change the settings of the room thermostat and other settings for each of the available features; Simple navigation between the different areas configured with a touch of the display.

#### VISUALIZATION BY SERVICES

The visualization of each area can be filtered through a toolbar that allows you to easily select the individual function available:

##### Lighting

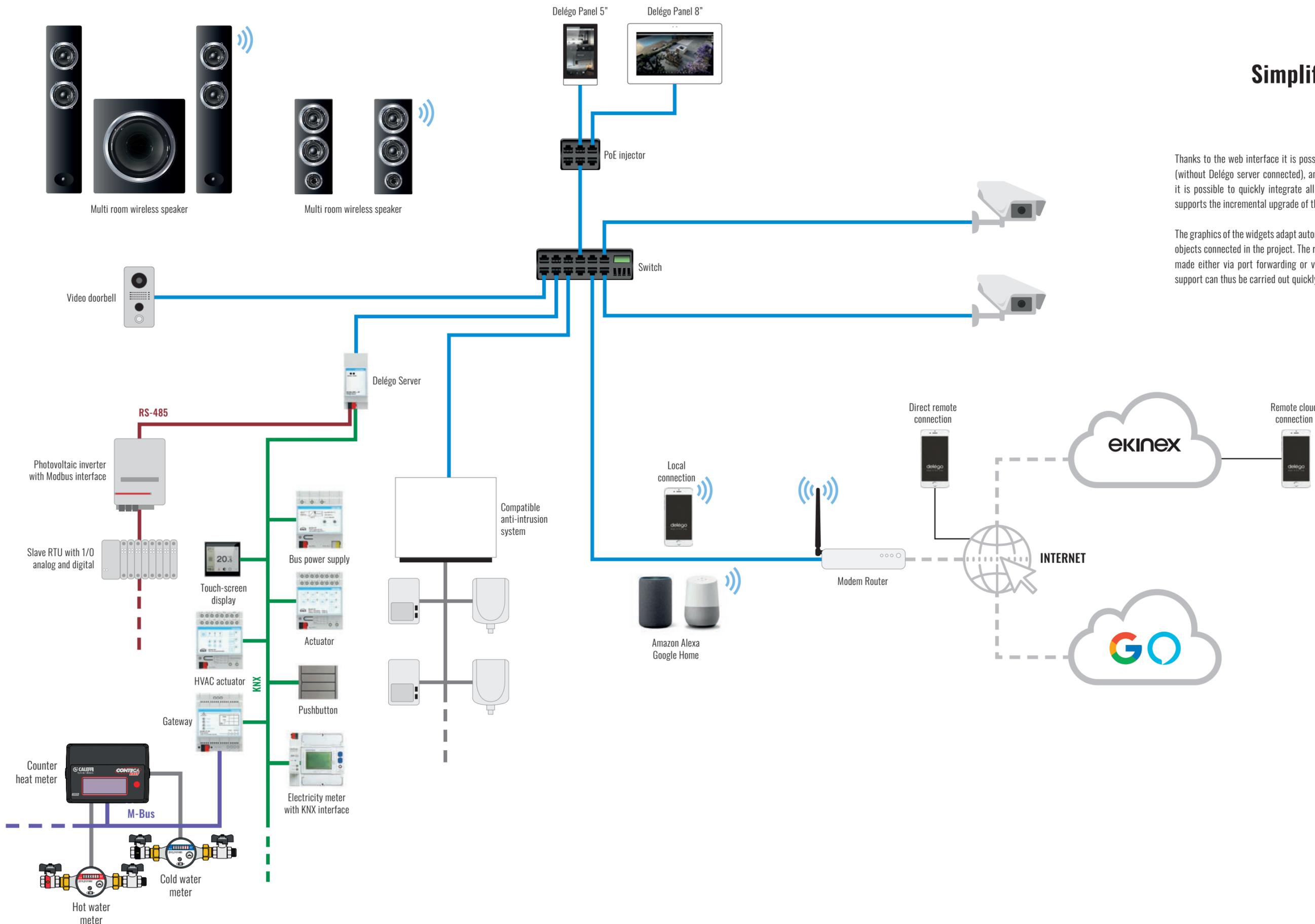
##### Air conditioning

##### Shading and motorized automations

##### Scenarios

The app can be extended with the functions provided by the compatible video surveillance, intrusion detection and audio/video systems integrated in the Delégo server.





## Simplified configuration and maintenance

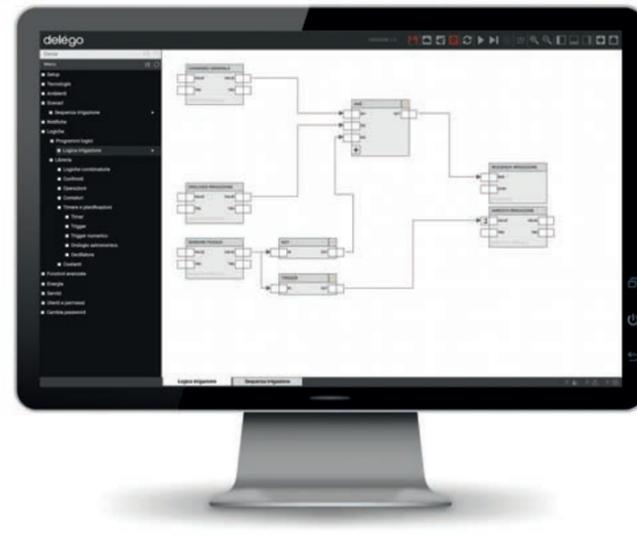
SUPERVISION

Thanks to the web interface it is possible to program the system online and offline (without Delégo server connected), and thanks to the ETS' project file import tool, it is possible to quickly integrate all the group addresses used. The system also supports the incremental upgrade of the installation via subsequent imports.

The graphics of the widgets adapt automatically according to the KNX communication objects connected in the project. The remote connection of the Delégo server can be made either via port forwarding or via native cloud connection. Maintenance and support can thus be carried out quickly and with reduced running costs.

# Complete versatility

SUPERVISION



### Multiplatform

Delégo server can be managed by PC, MAC, Touch-PC, smartphone and tablet through a common Internet browser or with a free dedicated app (available for Apple devices and Android).

### Customizable

the graphics and automatic functions of Delégo server can be easily modified according to your needs, accessing the web pages with your PC of administration.

### Quick to configure

Delégo server proposes a set of ready-to-use functions typically used in the home automation supervisors and allows you to quickly import the structure of your own ETS building (KNX installation).

### Multi-protocol

Delégo server can be connected directly to both the KNX bus in the twisted version pair, both to Modbus on RS485 network and via TCP/IP protocol via Ethernet port. Thanks to the multi-protocol management it is possible to connect intrusion detection systems, thermoregulation, multimedia systems and video surveillance.

### Easy to install

Thanks to the size of only 2 modules on DIN rail, Delégo server can be easily installed directly into the electrical cabinet. The communication ports to the LAN, KNX bus and other technological subsystems do not require any additional external interfaces.

### Reliable

The Delégo server is based on a Linux operating system that guarantees reliability and stability. of the platform for continuous use, as well as providing a high degree of safety on the net.

### Also offline

It is possible to build the supervision project even without being connected to the webserver, working in "offline" mode directly on your PC or MAC.

### 100% Made in Italy

Hardware and software are designed, manufactured, assembled and tested entirely in Italy, to guarantee the highest quality of the product and after-sales service competent and helpful.

# Main features

SUPERVISION

## SOFTWARE FEATURES

<b>Standard technologies</b>	KNX RS-485 / TCP / UDP configurable Modbus RTU/TCP	
<b>User Interface</b>	Web / HTML5 (All operating systems) Dedicated app (iOS   Android)	
<b>Number of users</b>	Unlimited without additional licenses	
<b>Synchronized connections</b>	Up to 20 (scalable on request)	
<b>Technological systems</b>	Lighting Heating / air conditioning Motorized doors and windows Irrigation Thermal power plant   thermoregulation Technical alarms Consumption and energy management Load control Weather control IP Cameras / IP Video Intercoms Intrusion detection Audio/Video broadcasting	
<b>Compatibility of operating systems</b>	Microsoft Windows Apple Mac OSX Linux	Apple iOS Android

## VISUALIZATION

<b>Layout</b>	Graphics scalable by resolution Automatic recognition of mobile devices Full support for touch and multi-touch devices
<b>Navigation</b>	Personalized graphic pages Multi-level environment navigation Navigation by functions Summary popups for the most complex functions Always accessible and customizable menu
<b>Customization</b>	Scenarios, Calendar schedules
<b>Notifications and messages</b>	Notifications on screen, Email, Push notifications
<b>Cloud Services</b>	Remote Accessibility, Weather Services, IFTTT

## SETUP AND CONFIGURATION

<b>Configuration mode</b>	Online Offline via free downloadable tool
<b>Environment of configuration</b>	Integrated search engine Navigation tree for access to all functions Drag & drop Multi-tab for multiple simultaneous configuration functions
<b>Setup and maintenance</b>	Network Date and time Backup / stay configuration via browser Language selection Graphic Themes Selection and Layout Customization Software update via browser
<b>Environments / graphic pages</b>	Grid layout and graphic map Customizable background images Custom Object Sorting/Placement
<b>Advanced Functions</b>	Scenarios with timings Logics Comparison of values and levels Mathematical operations Custom functions via scripting
<b>Planning and calendar</b>	Unlimited number of daily profiles for each object Weekly and annual profiles Configuration accessible by end user
<b>Energy Management</b>	Support for KNX network analyzers, ModBus Integrated load control function Graphical visualization of consumption and production Real-time load absorption display Automatic comparisons and consumption indicators
<b>Voice Control</b>	Amazon Alexa - Google Assistant
<b>Users and security</b>	Unlimited number of users Unlimited access Secure SSL access via internet



## Delégo server

SUPERVISION

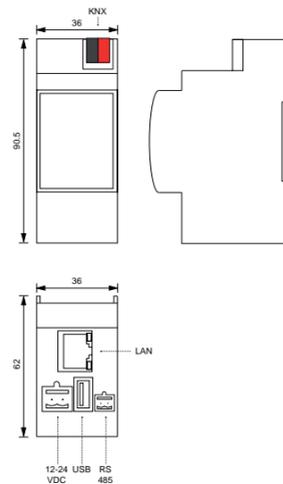
### Description

Web supervisor for home and building automation systems based on the KNX system. It allows to manage the functions present in the building through any type of device (PC/MAC, touch-PC, smartphone, tablet) as long as it is equipped with a web browser, both locally and remotely through internet. Customizable graphics suitable for any context and application, optimized for visualization on different fixed and mobile platforms. Simplified and fast configuration of KNX functions. Possibility to realize scenarios, time sequences, logics, conditions, operations mathematics, temporal planning through simple graphical tools and intuitive: reporting events and alarms on screen or via email. Configuration online or offline via free downloadable PDF tool: does not require programming or HTML skills for supervision customization. Interfacing with other communication technologies and protocols by enabling additional modules.

### Main features

- **Dimensions:** 90.5 x 62 x 36 mm 2 DIN modules
- **Power supply:** 12 - 24 VDC Plug-in terminal provided
- **Absorption:** 240mA at 24V
- **Connections:** LAN (RJ45)  
KNX (standard red-black connector)  
RS485 (terminal supplied)  
USB
- **LED:** Power  
Service / Reset
- **Degree of protection:** IP 20 (according to EN 60529)
- **Insulation class:** II (according to EN 60335-1)
- **Operating temperature:** +0°C ... +40°C
- **Storage temperature:** 10°C ... +70°C

### Dimensions [mm]



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)



### Order information - Licenses

Code	Composition	License version	KNX Addresses	Scenarios	Logics/Thresholds	Environments	Loads	Cameras	Package
EK-DEL-SRV-BAS-TP	Delégo server	BASIC	400	100	100	Unlimited	Unlimited	Unlimited	1 cs.
EK-DEL-UPGR-BA	Upgrade License	ADVANCED	1200	100	100	Unlimited	Unlimited	Unlimited	
EK-DEL-UPGR-BP		PREMIUM	2500	100	100	Unlimited	Unlimited	Unlimited	
EK-DEL-UPGR-200		UPG. 200 ADRESSES	200						
EK-DEL-V1-INTRDET	Voucher	Intrusion Integration		Upgrade codes and vouchers are activated in the Delégo Tech Portal.					
EK-DEL-V1-MBUS		M-Bus integration		The portal is accessible by typing <a href="http://voucher.ekinex.com">voucher.ekinex.com</a> into your browser: when you log in for the first time, you can register and obtain your login credentials. Use is very simple: by typing in the code on the purchased voucher or by using the practical QR code and using the serial code on the side label of the server device, it is possible to generate a licence code for a specific Delégo function or the extension to a larger number of group addresses.					
EK-DEL-V1-MODBUS		Modbus extension over 30 registers							
EK-DEL-V1-VOIP		IP Video Door Entry Integration							



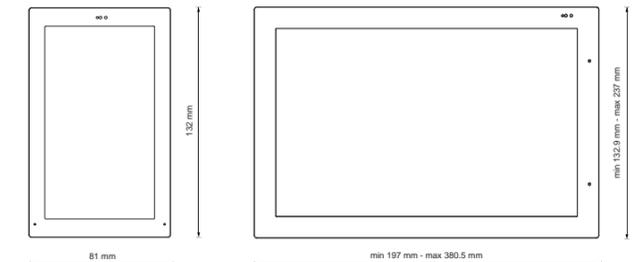
## Delégo panel

SUPERVISION

### Description

The touch-panels of the Delégo series are a must-have instrument for the management of the modern connected building. Through these you can control all the automation functions of the premises: lights, roller shutters, burglar alarm, climate control, building management, etc. energy saving and multimedia system. Delégo touch-panels are available in two cuts, from 5" to 15" capacitive display, with black frame. The elegance of the minimalist design, the exceptional graphic of the HD display and the outstanding performances, make Delégo panel ideal for home, office, businesses, and any other area of installation. Possibility of customization through aluminium frame (5" version only).

### Dimensions [mm]



### Order information



Version	5"	5" Premium	8"	8" Premium	10" Premium	15" Premium
<b>Code</b>	<b>EK-DEL-5PAN</b>	<b>EK-DEL-5PAN-P</b>	<b>EK-DEL-8PAN</b>	<b>EK-DEL-8PAN-P</b>	<b>EK-DEL-10PAN-P</b>	<b>EK-DEL-15PAN-P</b>
<b>Power supply</b>	Power Over Ethernet (PoE)					
<b>Connectivity</b>	LAN 100baseT					
<b>Display</b>	LCD HD IPS TFT					
<b>Colours</b>	16,7 millions of colours (true color)					
<b>Resolution</b>	800 x 1280 px	1080 x 1920 px	1280 x 800 px		1920 x 1080 px	
<b>Touch screen</b>	capacitive with multi-touch & gesture support					
<b>Speakers</b>	high definition audio with built-in amplifier, 1W		high definition audio with built-in amplifier, 2W		high definition audio with built-in amplifier, 4W	
<b>Built-in microphone</b>	high resolution		high resolution with echo cancelling			
<b>Operating system</b>	Android 6		Android 11			
<b>Certifications</b>	CE / FCC class B / FCC part 15 / RoHS / WEEE					
<b>External dimensions (L x H x P)</b>	132 x 81 x 14 mm		223.5 x 148.4 x 15.8 mm		132.9 x 197.2 x 11.5 mm	
<b>Orientation</b>	portrait		landscape		portrait - landscape	
<b>Plastic frame</b>						
<b>External frame</b>						
<b>Compatible flush-mounted box</b>	2M flush mounting box (e.g. BTicino mod. 502E); 60 mm diameter round box (e.g. Gewiss mod. 24232); 3M flush mounting box (e.g. BTicino mod. 503E)		2M flush mounting box (e.g. BTicino mod. 16204), alternatively flush mounting box type 504*		2M flush mounting box (e.g. BTicino mod. 502E); 60 mm diameter round box (e.g. Gewiss mod. 24232); 3M flush mounting box (e.g. BTicino mod. 503E)	

(\*) for information, please contact Ekinex Technical Support. Flush mounting box 503 must be mounted with the same orientation as the device



### Documentation

For more information see the technical documentation, download from [www.ekinex.com](http://www.ekinex.com)





# TOOLS



## Planner

TOOLS

### Description

PLANNER is a configuration software made available on its website from Ekinex®. This tool, from the easy to use and driven, allows the end user and the designer to identify products that are perfectly suited to the needs of the project. With PLANNER you can also choose and test different combinations of buttons and civil series finishes to get closer as possible to the desired result. PLANNER allows you to fill out a simple list of devices to be used or they can be placed in a preview of a user-uploaded file, in order to recreate the actual conditions of the future installation. Finally, the software allows you to create a database of your projects with the ability to retrieve and modify projects at all times. When you finish using PLANNER allows you the chance to ask Ekinex® the best trade offer to the list of materials in your project

### Use in 4 steps

#### 1) ADD A PROJECT

From the Ekinex® site, reach PLANNER by following this link: [planner.ekinex.com/en/](http://planner.ekinex.com/en/). At this point you can decide whether or not to insert a map (jpeg, gif, png, pdf image format); in any case you will be asked to give a name to your project, so that you can identify it later.

#### 2) SELECT DEVICES, MODELS AND FINISHING

PLANNER guides you on the page where you can find a list of products and create a list of devices to be installed in the system. All the devices can be placed on the image of the plan if previously inserted.

#### 3) GET THE LIST

PLANNER gives you the ability to export and manage the list of chosen devices, to be able to control the features chosen.

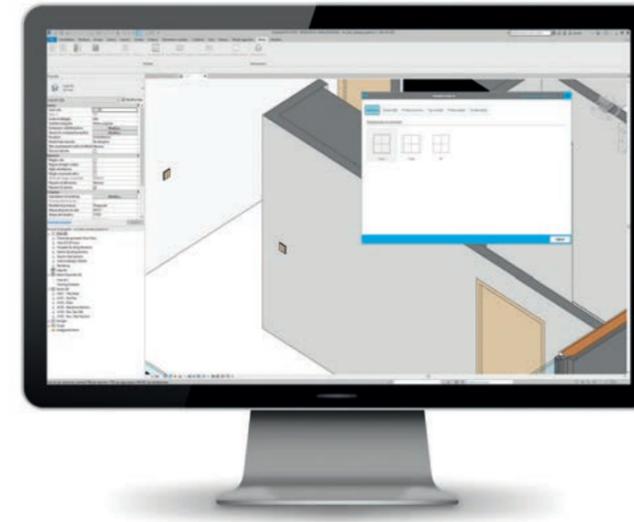
#### 4) SAVE THE PROJECT

By clicking on "save changes", you will save the positions and changes made. You can also print the project and export the list of products in pdf format.

### Offer request

Planner is a great business tool. You can request this offer and conditions for devices of your project by clicking on the icon "Request a quote". The network of Ekinex® will contact you and will answer quickly and with the best offer for your project.

For further information contact: [sales@ekinex.com](mailto:sales@ekinex.com)



## Bim

TOOLS

### Description

BIM stands for Building Information Modeling and indicates a methodology aimed at optimizing and managing the design and construction of a building.

The BIM is therefore used mainly in the construction sector to promote a working method that involves the generation of a building model that can also manage the data of the entire life cycle through multi-dimensional virtual models generated digitally by means of specific software.

A BIM can contain any information about the building and its parts. The most commonly collected information is geometry, technical and mechanical data, electrical data, material specifications, financial, energy and environmental assessments.

### What are the benefits of bim in home automation and construction?

The role of BIM in the construction industry is to support collaboration between the different actors involved (designers, builders, architects, clients) and integrate the design and simulation processes into a single model that can manage all phases of the life cycle of the building.

The main benefit of adopting the BIM methodology is the 3D representation during the design phase, which speeds up processes, reduces delivery times and allows errors and inaccuracies to be detected first. The greater efficiency in sharing information and a more precise control over all the processes involved, also make it possible to contain costs and schedule in advance maintenance operations.

The fields of BIM related to technology allow the management of complex projects such as home automation and the willingness of the customer to control the building. During the design phase it is already possible to simulate the integration of the different systems and the control of the possible scenarios in a 3D environment, giving all the professionals involved the opportunity to work together without data or process conflicts.

### Software

The BIM library is available in Autodesk Revit® format, by installing our **Ekinex BIM Content Creator software**, a real advanced configurator of the product range that will be enriched with future updates and expansions.

For further information:  
[ekinex.com/en/bim/library-wall-mount.html](http://ekinex.com/en/bim/library-wall-mount.html)



ekinex

SALES KIT

Pocket Box	332
Color Ring	332
Glam Box	333
Color Box Pro	333
Style Box	334
Style Case	334
Tech Case	335



## Pocket Box

SALES KIT

### Description

Pocketbox is a small and versatile tool that allows you to present Ekinex products in their natural size. Inside the box there are many 1:1 scale cardboard models complete with description. Pocketbox is a small and versatile tool that allows you to present Ekinex® products in their natural size.

For further information: [sales@ekinex.com](mailto:sales@ekinex.com)

### Order information

Code	Package	Weight
EK-POC-BOX-EN	1 pcs.	0.109 Kg



## Glam Box

SALES KIT

### Description

Glam Box is a finishing box containing all plastic, metal, Metal HT and Fenix NTM® samples represented by a square rockers (TQQ) of the FF series.

For further information: [sales@ekinex.com](mailto:sales@ekinex.com)

### Order information

Code	Package	Weight
EK-CB2022	1 pcs.	0.200 Kg



## Color Ring

SALES KIT

### Description

Color Ring is a ring equipped with rectangular keys made of plastic, metal and Fenix NTM® in real size that allows you to evaluate the chromatic combination between the button and the wall.

For further information: [sales@ekinex.com](mailto:sales@ekinex.com)

### Order information

Code	Finishing	Package	Weight
EK-CC-MET	Metal	1 pcs.	0.152 Kg
EK-CC-FEN	Fenix NTM®		0.117 Kg
EK-CC-PLA	Plastic		0.032 Kg



## Color Box Pro

SALES KIT

### Description

Color Box Pro is a finishing folder that contains a working KNX button equipped with 12 different materials, colours and button types. It is available in a version completely dedicated to Fenix NTM® and metal.

For further information: [sales@ekinex.com](mailto:sales@ekinex.com)

### Order information

Code	Finishing	Package	Weight
EK-CBP-MET-FEN	Metal and Fenix NTM®	1 pcs.	1.332 Kg



## Style Box

SALES KIT

### Description

Stylebox is a presentation box that contains one or more Ekinex devices declined in different colours and finishes to evaluate the different colour and aesthetic solutions available.

For further information: [sales@ekinex.com](mailto:sales@ekinex.com)

### Order information

Code	Version	Package	Weight
EK-SB4-FF-FORM	Style Box FF series Form		
EK-SB4-71-DEEP	Style Box 71 series - Deep		
EK-SB4-71-SURFACE	Style Box 71 series - Surface		0.500 Kg
EK-SB4-20VENTI	Style Box 20venti series		
EK-SB4-5PAN	Style Box Delégo panel 5"		1.500 Kg
EK-SB4-CRO-CBM	Style Box Metal HT (Chrome/Black metal)	1 pcs.	
EK-SB4-COP-CHA	Style Box Metal HT (Copper/Champagne)		
EK-SB4-PWS-MIT	Style Box Prese elettriche/USB (MIT)		
EK-SB4-PWS-MES	Style Box Prese elettriche/USB (MES)		0.500 Kg
EK-SB4-VA2	Style Box Eséguo		
EK-SB4-EV2-DE	Style Box Signum Deep		
EK-SB4-EV2-SU	Style Box Signum Surface		

## Style Case

SALES KIT



### Description

Style Case was thought to display the Ekinex® wall-mounting devices, appreciate the feel of materials and colours, test the effect on different wall backgrounds. It has four drawers for the different product lines (one of them is equipped with functioning devices) containing demo-versions of pushbutton and thermostats. Style Case also includes an array of pushbutton faceplates as a colour sampler; the front lid hosts a pouch for catalogues or note sheets. The suede leather belt provides for a convenient carrying handle.

For further information: [sales@ekinex.com](mailto:sales@ekinex.com)

### Order information

Code	Package	Weight
EK-SC4-01	1 pcs.	9.300 Kg



## Tech Case

SALES KIT

### Description

Tech Case is an ideal solution to support KNX training (basic, advanced, hvac) and product presentations. Tech Case is made of a shock-resistant housing and is equipped with an integrated trolley system that makes it suitable for business travels. Tech Case is delivered with connected Ekinex devices and preinstalled application programmes.

For further information: [sales@ekinex.com](mailto:sales@ekinex.com)

### Order information

Code	Version	Package	Weight
EK-TCB-TP	basic	1 pcs.	11.000 Kg
EK-TCA-TP	advanced		12.000 Kg

**Note:** The composition of Ekinex devices may change depending on availability



## Projecting, configuration and commissioning

### TECHNICAL SECTION

The Ekinex® home and buildings automation system was developed in accordance with the KNX open standard; therefore, the planning and the commissioning of a system as well as the configuration of its devices can be carried out easily by means of a PC and the ETS® software. The software allows to program Ekinex® devices, as well as thousands of other interoperable devices produced by companies which are members of KNX Association. All is needed to use Ekinex® devices in a system project, is the download from the [www.ekinex.com](http://www.ekinex.com) website of either the application programs general file, the Ekinex® product database containing software for all devices, or the single, specific-application program as necessary. After importing product data into the internal ETS® database, one may start laying out the home automation project.

The first activity required consists of assigning a name to the project, along with general descriptive information, which will permit to re-use the same project without problems, even after a long time. The next step is to define the building's structure and the topology required by the home automation project. The devices are looked up in the database, copied into the structure and assigned a unique id, corresponding to their physical address. At this point, each device may be configured independently, by setting a series of parameters, which vary according to the function to be performed. For example, independent function can be attributed to each different channel of a single push-button command, e.g. switching on or off an electrical appliance, a dimmer for a light source or the opening/closing control for a roll-up shutter. The next step is to define the interaction between multiple devices; unlike traditional installations, where this is achieved by physically laying cables, in a home automation system this action is performed by means of virtual connections generated by the ETS® program.

It is then possible to upload the application program to each device, thereby including all the settings required to perform the expected function within the system. ETS® also has utility functions for diagnoses and error search; for instance, it is possible to verify physical addresses and to check the status of each single devices on the connected bus. Lastly, the program can produce the necessary project documentation for the end user, so that it may be further expanded and adapted in the future. The constant attention of KNX towards the world of professionals developed into a wide offer of training courses. Courses for experts have been offered for years in numerous countries and KNX constantly monitors the activity of all certified training centres, where it is possible to become KNX Partners. The professional role of a KNX Partner is to guarantee a high level of system expertise in order to achieve the best results. Among KNX Partners are designers, installers and system integrators, who offer expert advice to plan, install, run and maintain a KNX-standard control system for homes and buildings.



In order to become KNX Partner, one must withstand a 40-hours theory and practise exam at a KNX-certified Training Centre. A complete list of KNX Partner is available on the website of KNX Association ([www.knx.org](http://www.knx.org)).



ETS® (Engineering Tool Software) is manufacturer-independent software, produced and marketed by KNX Association ([www.knx.org](http://www.knx.org))

# KNX technology

## TECHNICAL SECTION

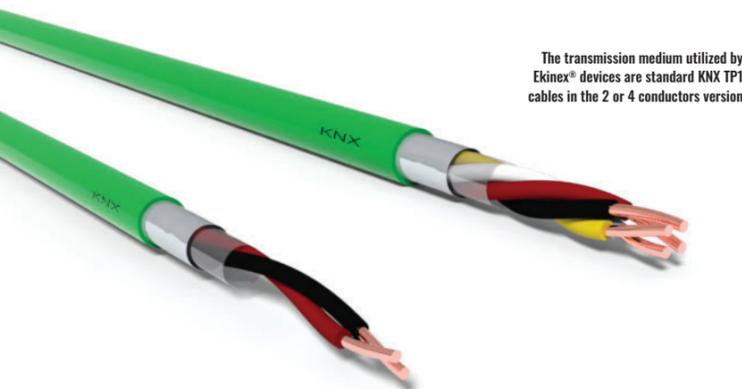
KNX systems realize decentralized building automation; therefore, neither a central unit nor a supervising PC for control are required. Each device is fitted with an electronic part, which allows bus communication with all other devices on the bus, processes the received information or transmits the stored working parameters and the logics required for the completion of its task.

### Communication

Communication between KNX devices occurs in digital form, by means of serial transmissions of organized information, called "telegrams". A telegram includes the main information to be transmitted – e.g. a switch on or switch off command, a numerical value corresponding to a physical size detected by a sensor, etc. – and a series of accessory information required to guarantee an efficient, error-free communication. Any telegram, which is not duly received, can be repeated up to three times by the transmitting device. In order to avoid collisions between telegrams being sent out at the same time along the same bus from different devices, the CSMA/CA (Carrier Sense Multiple Access / Collision Avoidance) protocol is used. The information transmission speed occurs at 9600 bit/s, which makes it possible to avoid bus line resistor terminations.

### Transmission medium

The family of Ekinex® TP bus devices uses twisted-pair signal cables to transmit data; the correct communication is guaranteed by employing bus cables with 1 or 2 conductor pairs made in accordance with KNX Association's TP1 specifications.



The transmission medium utilized by Ekinex® devices are standard KNX TP1 cables in the 2 or 4 conductors version

### Connecting the devices

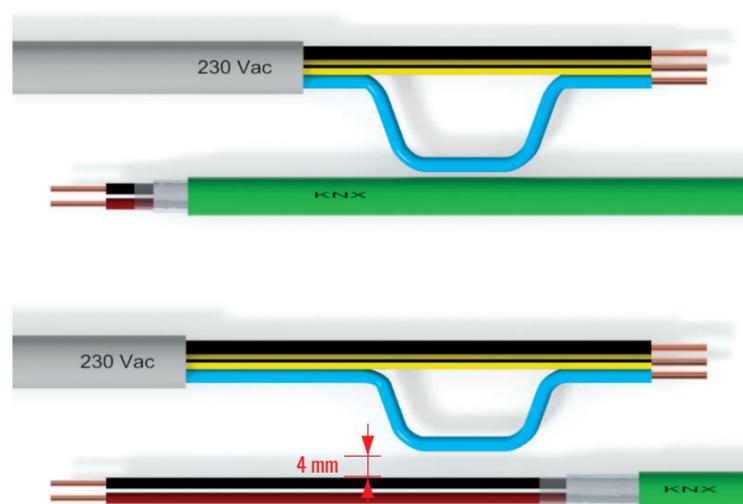
Ekinex® devices are connected to the signal bus cable by means of the KNX bus termination block. The termination block and the cable form part of a convenient, fast-connection system aimed at eliminating errors: the cable has rigid connectors and the termination block is fitted with holding springs (instead of screws); besides, the termination block is formed by two elements having the same colour-coding (black/red) of the conductors to be connected. Each stripped bus conductor will be simply inserted in place, where it will stay firm thanks to the provided holding spring. Each polarity has 4 connection areas and the termination block may be extracted from its seat: Thanks to these two characteristics, the removal of any device from the bus cabling does not determine the interruption of communications with the remaining devices. The termination block is also used for branching cable segments on the same bus.



The Ekinex® devices are connected to the KNX network via the bus terminal included in every appliance supplied.

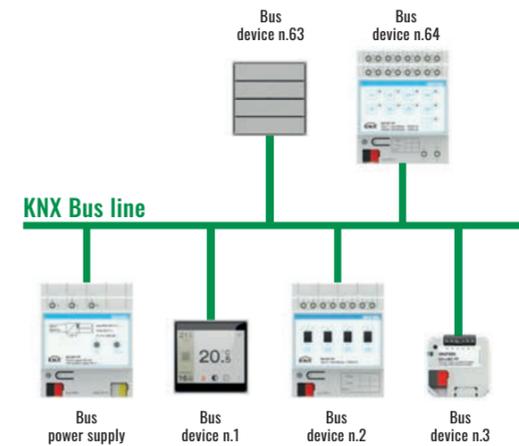
### Installation

KNX bus cables can be laid underneath the 230 Vac power cables along the same duct, provided they are kept isolated. Should the insulating sheath be removed, a distance of at least 4 mm between cable types must be guaranteed.

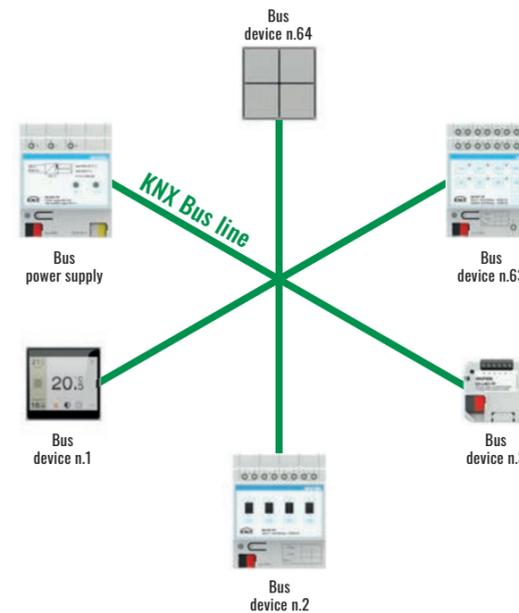


### Topology

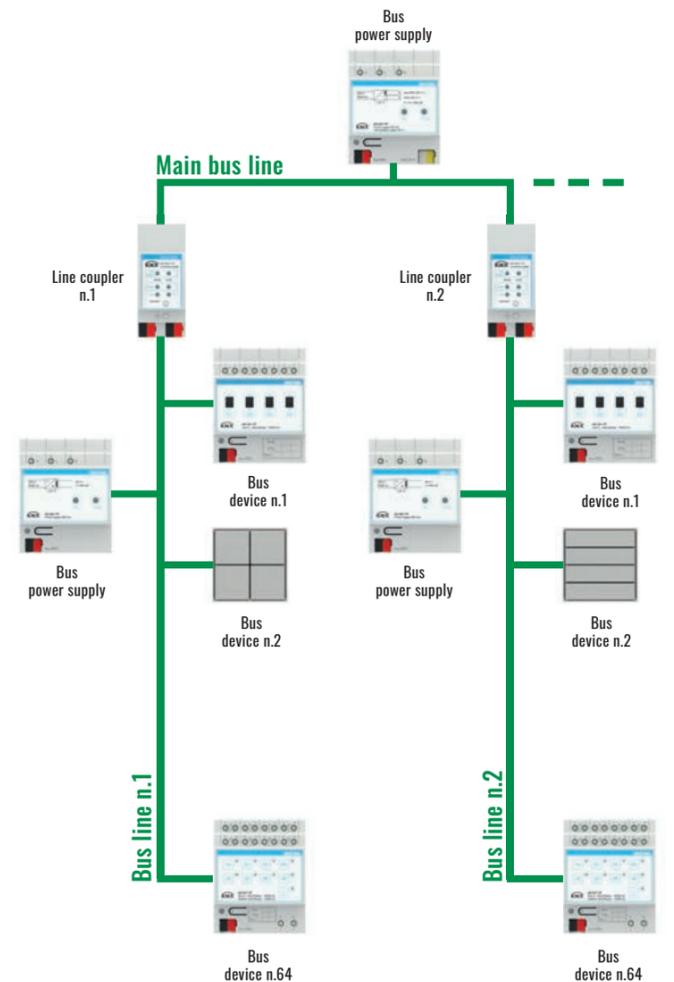
The smallest KNX system may include a single bus line along which up to 64 devices can be connected. The line must be equipped with the special bus power supply, which provides the necessary SELV voltage for the system to work. The effective number of bus devices that can be connected to the line is determined at project level and may vary depending on the voltage supplied by the bus power supply and on the electrical absorption of each device on the bus. Since each Ekinex® device can process multiple functions, a single-bus line can suffice to control an apartment, a detached house or even a larger building with a limited number of bus functions.



Next to a simple single-line configuration, a bus line can be subdivided into more segments, thus obtaining a star-shaped or a tree-shaped topology, or any combinations of the two.

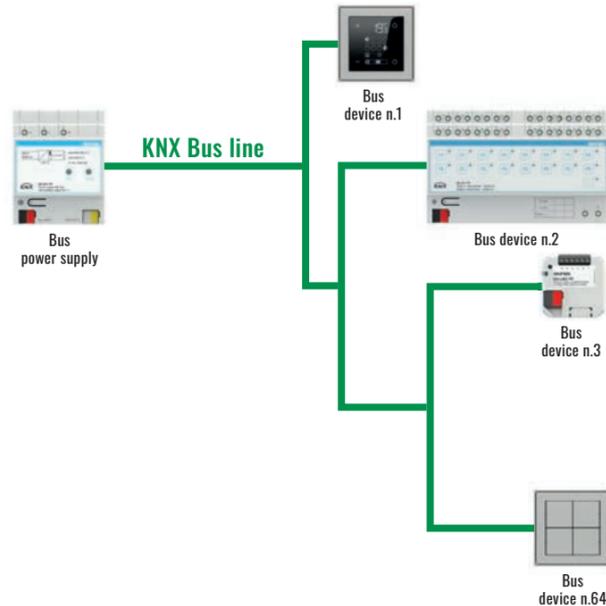


Adding line couplers, allows the system to expand to accommodate for larger buildings and/or higher numbers of required bus functions. Connecting more lines between them by means of couplers and a backbone line constitutes an area. An area is formed by a backbone line, up to 15 secondary lines and by all the devices connected along them. A unique number between 1 and 15 characterizes each secondary line. With little less than 1000 connectible KNX devices, an area permits the handling of a medium/large size system.



# KNX technology

TECHNICAL SECTION



It is necessary to respect KNX topology prescriptions while designing the system, in order to guarantee communication within the system:

- the maximum allowed line length is 1000 m, including all branches;
- up to 64 bus devices can be connected to one line;
- the maximum distance between 2 devices is 700 meters;
- no bus device may be more than 350 meters apart from a bus power supply;
- in case of high numbers of bus devices (> 30) along limited sections lengths (10m), a second bus power supply can be installed, provided it sits at least 200 meters away from the first.

Should the demand increase, a KNX system can be further extended by connecting one another up to 15 areas. The main lines of each single area are connected to a backbone line by means of area couplers. Areas and main lines are numbered 1 to 15, while the backbone line bears number 0. The most extended KNX system permits to connect tens of thousands of devices, thus satisfying the necessities of very large buildings.

### Device addressing

The bus is a shared communication medium and each connected device must be exclusively distinguished from all others. The ETS® program takes care of that by assigning a physical address to each device; the address is represented in the form "area.line.device". Thanks to that, the topology of the entire system is mirrored into the devices' physical addresses, making it easy to locate a device in the whole topology, by simply knowing its physical address. For instance:

**3.5.12** is the physical address of the bus device number 12, installed along line 5 in area 3

**7.11.4** is the physical address of bus device number 4 on line 11 in area 7

A line coupler connects a secondary line to the backbone line; the device forms an integral part of the secondary line and conventionally assumes the device number "0". The physical address of a line coupler can be, for instance:

**3.5.0** is the physical address of the coupler connecting the secondary line n. 5 to the main line of area 3

The area coupler connects an area's main line to the backbone line; the device is part of the main line and conventionally assumes device number "0" and line number "0". The physical address of an area coupler is, for example:

**3.0.0** is the physical address of the coupler connecting the main line of area 3 to the system's backbone line

# KNX technology

TECHNICAL SECTION

The physical address of the transmitting device is always present in a telegram, working as the "source address" of the message.

3.5.12

The physical address (area.line.device) is used when programming and diagnosing bus devices.

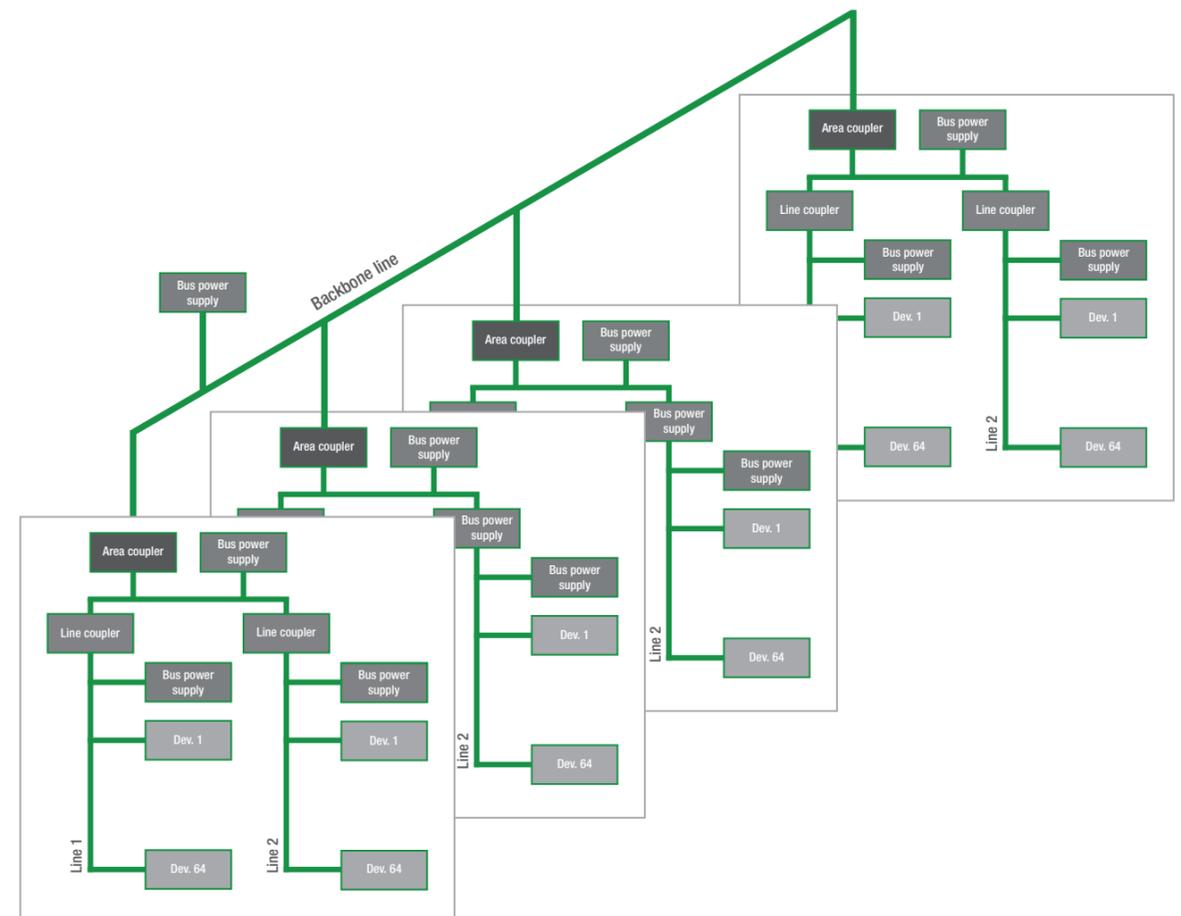
2/6/54

The group address is used when commanding and controlling the bus devices.

To coordinate the performance of several devices over a particular bus function, a so-called group address is used: this is represented by a two levels structure "main group/subgroup" (e.g. "2/15") or by a three level structure "main group/middle group/subgroup" (e.g. "2/6/54"). This type of address is almost exclusively used as a "destination" address for telegrams.

### Power supply

KNX systems work with the 30 Vdc SELV (Safety Extra Low Voltage) voltage, supplied by the bus power supply present on each line; this power feeds the electronic parts of the devices and provides for the transmission of information over the bus. Normally, KNX commands and sensors are exclusively connected to the bus line, while parts of KNX actuators require a separate 230 Vac power supply for commanding connected loads. Some devices may require an auxiliary SELV power supply for their operation.



## Normative references

### TECHNICAL SECTION

Norms are, by nature, voluntary application dispositions; anyhow, complying with norms constitutes the best guarantee in the choice of a product for designers, installers and end users. In fact, norms are "state-of-the-art" developments in their technology sector and precisely define quality, performance and safe conditions of use for a product. Beyond safety norms regarding all products, the systems for the control of houses and buildings are more often requested to integrate energetic

efficiency models, consistently abiding to recent tendencies aiming at global system-envelope system efficiency, more so than seek optimization of single parts. KNX represents an open and interoperable system for the automation of houses and buildings, normed at global level thanks to its conformity with international (ISO/IEC 14543-3), European (CENELEC EN 50090, CEN EN 13321-1 e 13321-2), Chinese (GB/Z 20965) and American (ANSI/ASHRAE 135) norms.

Norm	Title	Notes
<b>ISO/IEC 14543-3</b>	<b>Information technology - Home electronic system (HES) architecture</b>	In sight of the great interest towards KNX compatible products and the technology by them consolidated well beyond European markets, the KNX Association took all necessary steps to obtain approval of its own KNX standards at international levels. At the end of 2004, active CENELEC member countries proposed the European EN 50090 norm for ISO/IEC standardization. In November 2006, the KNX protocol and all transmission media (TP, PL, RF and IP) became approved and published under the international ISO/IEC 14543-3-x normative.
<b>EN 50090</b>	<b>Home and Building Electronic Systems (HBES)</b>	In December 2003, the KNX protocol and the two TP (twisted pair) and PL (power line) transmission media were approved by the European national committees and ratified by the CENELEC Bureau Technique under the European EN 50090 norm. The transmission medium KNX RF (radio frequency) was approved the month of may 2006.
<b>CEN EN 13321-1</b>	<b>Open data communication in building automation, controls and building management. Home and building electronic system. Product and system requirements</b>	Since KNX supplies more and more technical specifications used not only for the automation of electrical devices, but also for HVAC (Heating, Ventilation and Air Conditioning) applications, the KNX Association submitted its specifications to CEN for publishing a European normative for building control systems. CEN accepted the proposal and KNX specifications where published by CEN as EN 13321-1 and EN 13321-2.
<b>CEN EN 13321-2</b>	<b>Open data communication in building automation, controls and building management. Home and building electronic systems. KNXnet/IP Communication</b>	
<b>GB/Z 20965</b>	<b>Control network HBES technology specification - Home and building control</b>	The great interest demonstrated by China for KNX products and technology was the main reason for the KNX Association to have the international ISO/IEC 14543 norm translated into Chinese. The Chinese standardization committee SAC TC 124 introduced the KNX standard into China and adopted it under the GB/Z 20965 norm in July 2007.
<b>ANSI/ASHRAE 135</b>	<b>BACnet - A Data Communication Protocol for Building Automation and Control Networks (ANSI Approved)</b>	Even the interfacing of KNX with other automation systems is now internationally standardized: the norms US ANSI/ASHRAE 135 and ISO 16484-5 support mapping between KNX and BACnet.
<b>CEI EN IEC 63044-3</b>	<b>2018 Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)</b>	Part 3: Electrical safety requirements
<b>CEI EN IEC 63044-5-1</b>	<b>2017 Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)</b>	Part 5-1: EMC requirements, conditions and test set-up

## Normative references

### TECHNICAL SECTION

#### The EN 50090 norm

The European EN 50090 norm "Home and Building Electronic Systems (HBES)" was developed at CENELEC from the TC 205 Technical Committee, specifically established in 1996 to write norms covering all relevant aspects of electronic systems dedicated to the control of homes and buildings. Parts of the norm were progressively released and published by the standard committee of several European countries giving birth to the national norms about the electronic systems for homes and buildings.

Beyond the requirements for the development of HBES systems and components, aimed at builders, the norm also defines the criteria for designing, installing and testing an HBES system. The KNX standard is entirely compliant with the EN 50090 norm.

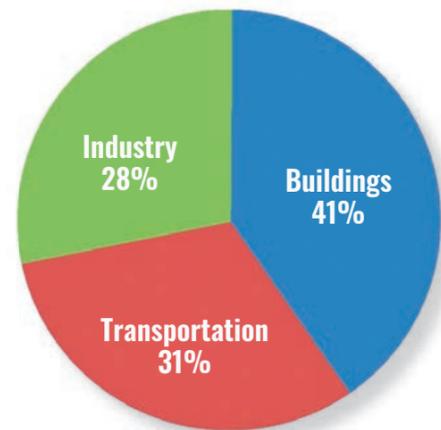
Part	Home and Building Electronic Systems (HBES) - Title of the part	Year
<b>EN 50090-1</b>	Part 1: Standardization structure	<b>2011</b>
<b>EN 50090-2-1</b>	Part 2-1: System overview - Architecture	<b>1998</b>
<b>EN 50090-2-2/A2</b>	Part 2-2/A2: System overview - General technical requirements	<b>2008</b>
<b>EN 50090-2-3</b>	Part 2-3: System overview - General functional safety requirements for products intended to be integrated in HBES	<b>2006</b>
<b>EN 50090-3-1</b>	Part 3-1: Aspects of application - Introduction to the application structure	<b>1997</b>
<b>EN 50090-3-2</b>	Part 3-2: Aspects of application - User process for HBES Class 1	<b>2004</b>
<b>EN 50090-3-3</b>	Part 3-3: Aspects of application - HBES Interworking model and common HBES data types	<b>2010</b>
<b>EN 50090-4-1</b>	Part 4-1: Media independent layers - Application layer for HBES Class 1	<b>2006</b>
<b>EN 50090-4-2</b>	Part 4-2: Media independent layers - Transport layer, network layer and general parts of data link layer for HBES Class 1	<b>2005</b>
<b>EN 50090-4-3</b>	Part 4-3: Media independent layers - Communication over IP	<b>2008</b>
<b>EN 50090-5-1</b>	Part 5-1: Media and media dependent layers - Power line for HBES Class 1	<b>2005</b>
<b>EN 50090-5-2</b>	Part 5-2: Media and media dependent layers - Network based on HBES Class 1, Twisted Pair	<b>2005</b>
<b>EN 50090-5-3</b>	Part 5-3: Media and media dependent layers - Radio frequency	<b>2007</b>
<b>EN 50090-7-1</b>	Part 7-1: System management - Management procedures	<b>2005</b>
<b>EN 50090-8</b>	Part 8: Conformity assessment of products	<b>2001</b>
<b>EN 50090-9-1</b>	Part 9-1: Installation requirements - Generic cabling for HBES Class 1 Twisted Pair	<b>2005</b>
<b>CLC/TR 50090-9-2</b>	Part 9-2: Installation requirements - Inspection and testing of HBES installation	<b>2009</b>

# Energy efficiency in buildings

## TECHNICAL SECTION

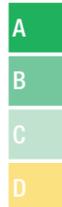
Based on the fact that buildings in Europe account for over 40% of total energy consumption, the European Union intensified its efforts over the last years so that buildings be projected and re-qualified, thereby restraining consumptions as much as possible. The declared objective is to reduce energy dependence and the emission of polluting and climate-changing gases. The starting point was the publishing of Directive 91 in 2002 about energy performance in building (known as EPBD – Energy Performance Building Directive) - a mandatory implementation for European Union countries – which introduced important new facts, such as the energy performance certification, aimed at informing users about the building’s energy performance and leaving up to national measures the identification of the most appropriate interventions needed to increase energy efficiency. The innovative approach required coordinated interventions on the envelope-system integrated system.

Final energy consumption by sector (EU)



### The EN 15232 norm

Following the Directive 2002/91/EC, the next step is to pay attention to efficiency recovery in individual behaviours and to concentrate on the relationship between the rate of automation in a building’s plan and the corresponding achievable energy saving. This has brought CENELEC to publish the EN 15232 norm, later acknowledged by the standard committee of several European countries. The norm evaluates the savings achievable through the adoption of growing automation levels – both during planning and energy verification operations – and to place buildings in one of four energy efficiency classes: from A (the most efficient) to D (the least efficient).



BACS: Building Automation Control System  
TBM: Technical Building Management System



### A class

A class includes highly energy-efficient buildings, fitted with control and automation systems (BACS) and technical system management (TBM), characterized by high levels of precision and completeness in terms of automatic control.

### B class

B class includes energetically advanced buildings, fitted with control and automation systems (BACS) and technical system management (TBM) allowing a centralized-type of control.

### C class

C class includes buildings, which are standard from an energy point of view and are fitted with basic control and automation systems (BACS). This class is also used as a reference for the calculation of efficiency factors.

### D class

D class includes buildings, which are not energy-efficient, having technical systems exclusively of a traditional type, lacking any kind of automation.

The EN 15232 norm also specifies:

- a structured list of regulation functions, automation and technical management which have a certain effect on the energy efficiency of buildings;
- a method to define minimal requirements to apply for regulation, automation and technical management of buildings of different complexity;
- detailed methods to evaluate the effects of such functions on a specific building;
- a simplified method to reach a first impact estimate of such functions on representative buildings.

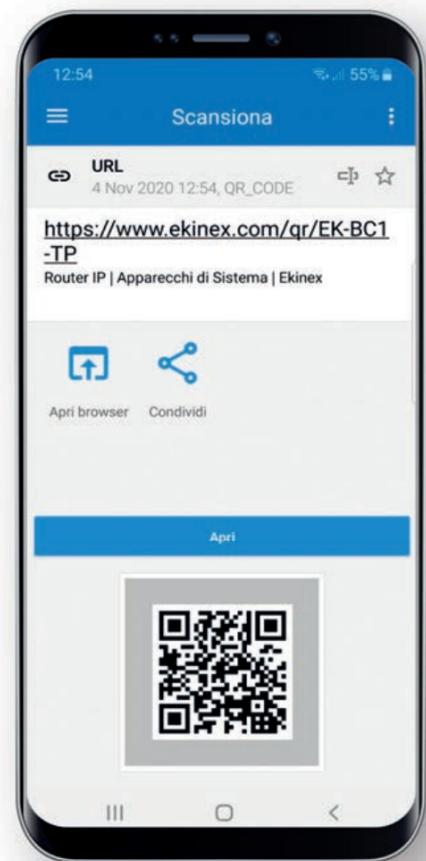
### Quality certification

The Ekinex® products described in this catalogue are developed and built in conformity with the quality management system adopted by Ekinex S.p.A. and certified by DNV – Det Norske Veritas – in accordance ISO EN 9001:2008.

### Access through mobile devices

All QR\* codes appearing on product catalogue pages, provide quick access - at any time and from any place – to technical documentation or any other web content published at [www.ekinex.com](http://www.ekinex.com), by using mobile devices such as smart-phones or tablets. In order to decode QR, one simply must upload to his mobile device any freeware application found online.

(\*) QR Code® is a trademark registered by Denso Wave Incorporated



### Documentation on the Web

All tech documents for Ekinex® devices are available for download from the [www.ekinex.com](http://www.ekinex.com) website, without requiring any registration. The search is free, and products may be searched by their code, family or type. The same documentation can quickly be accessed from within the product pages, too.



### ETS application software in several languages

All Ekinex® devices have ETS application software in 4 languages: English, German, French and Italian.

### Single packaging

Ekinex® devices are individually protected against shock & dust by means of a dedicated packaging. The label clearly describes the contents and bears both an (EAN) bar-code and a QR. Inside the packaging, the instructions sheet supplies information for the installation of the product.

## General terms of sale

Valid for the Ekinex® product range.

### 1. DEFINITIONS

- 1.1 In these General Terms and Conditions of Sale, the terms below shall have the following meaning:
  - a) "Manufacturer": Ekinex S.p.A. with registered office in Vaprio d'Agogna (28010 NO), via Novara 37;
  - b) "Purchaser": professional customer, sole proprietor or company, requesting the purchase of Ekinex® products;
  - c) "Party" or "Parties": Ekinex S.p.A. and the Buyer;
  - d) "Order" or "Orders": the order or purchase orders concerning Ekinex® products issued by the Purchaser to Ekinex S.p.A.;
  - e) "Products": all Ekinex®-branded products for home and building control, which can be found in the Ekinex® product catalogue in printed and/or electronic form and on the website [www.ekinex.com](http://www.ekinex.com);
  - f) "General Conditions": the general conditions of sale set out below.

### 2. SCOPE OF APPLICATION

- 2.1. These General Terms and Conditions of Sale govern all purchase contracts concerning Ekinex® products concluded between the Parties;
- 2.2. The Buyer may not invoke or object to any conditions other than those contained in the General Conditions. Consequently, any conditions specified in writing shall have no validity, by the Buyer on the Order, or at any other stage of the contractual negotiation, and also after acceptance or knowledge of the General Conditions, as well as any other terms and conditions that the Buyer may have. General conditions of purchase of the Buyer. The execution, even partial, of the Order by Ekinex S.p.A. or any other fulfilment by Ekinex S.p.A. towards the Buyer is not valid and does not apply to the Buyer. Shall be construed as tacit or implicit acceptance of any general terms and conditions other than these Conditions, unless expressly accepted in writing by Ekinex S.p.A. Even in the event of derogations agreed upon in writing, these conditions shall continue to apply for the parts not expressly derogated.
- 2.3. The General Terms and Conditions are only valid for contractual relations between Ekinex S.p.A. and professional traders, and therefore Legislative Decree no. 206 of 6 September 2005 shall not apply. (Consumer Code) and subsequent amendments.
- 2.4. Ekinex S.p.A. reserves the right to amend these General Terms and Conditions of Sale at any time, which shall be communicated to the customer without prior notice. Each contract shall be governed by the General Terms and Conditions of Sale in force at the time the order is placed by the Customer.

### 3. FORMATION OF THE CONTRACT

- 3.1. The acceptance by the Buyer of the offer or the confirmation of the order by Ekinex S.p.A., in whatever manner, entails the application of these General Conditions of Sale.
- 3.2. The offers made by agents, representatives and commercial auxiliaries of Ekinex S.p.A. are not binding for Ekinex S.p.A. until they have been confirmed by Ekinex S.p.A. in writing. The offers of sale made by Ekinex S.p.A. are valid for 30 days from the date of their formulation and are limited to the complete supply of what is listed therein. After the expiry of this period, the offer to sell shall no longer be valid.
- 3.3. The Order sent by the Purchaser to Ekinex S.p.A. constitutes an irrevocable contractual proposal binding for a period of three months, starting from the moment Ekinex S.p.A. becomes aware of it.
 

Within the aforementioned three months Ekinex S.p.A., at its sole discretion, reserves the right to accept or refuse the Order, informing the Buyer accordingly.

In the event that the order confirmation of Ekinex S.p.A. differs from the order sent by the Buyer with regard to the quantity of products, prices, discounts and delivery methods, this confirmation shall be considered as a counter proposal by Ekinex S.p.A., which must be expressly accepted by the Buyer in order for the contract to be considered concluded.
- 3.4. By sending the order, the Customer acknowledges and declares that he/she has read all the information provided to him/her during the purchase procedure and that he/she fully accepts these General Terms and Conditions of Sale.
- 3.5. Acceptance is expressed by a confirmation e-mail sent to the e-mail address indicated by the Customer. The confirmation message shall contain the date and time of the order and a 'Customer Order Number' to be used for any further communication with Ekinex S.p.A.. The customer may monitor the status of the order at any time by contacting Ekinex S.p.A. at the following telephone number +39 0321 1828980 or at the following e-mail address [sales@ekinex.com](mailto:sales@ekinex.com).
- 3.6. If the Buyer cancels the Order before its acceptance or execution by Ekinex S.p.A., Ekinex S.p.A. may ask the Buyer to reimburse the costs of the Order.

### 4. PRODUCT AVAILABILITY

- 4.1. Ekinex S.p.A. reserves the right to change the Ekinex® product catalogue and the technical characteristics of the products without prior notice.
- 4.2. If one of the requested products is not available, Ekinex S.p.A. undertakes to contact the Customer within 20 working days from the time of placing the order, communicating by e-mail, to the email address provided by the customer, the unavailability and possible alternative solutions. In this case, the customer can wait for the delivery of the order, if Ekinex S.p.A. believes that it can be found on the market. The product is not available or cancel the order and receive a refund of any price already paid.
- 4.3. Before purchasing each product, carefully check the installation requirements according to the regulations of the country where the installation will take place and compatibility according to the design specifications.
- 4.4. Ekinex guarantees the correct installation of its products only with the flush-mounting boxes shown in the planner or technical catalogue. For the use of different flush-mounting boxes we recommend that you contact our technical support ([support@ekinex.com](mailto:support@ekinex.com)) or check the correct installation yourself.

# General terms of sale

# General terms of sale

## 5. PAYMENT METHODS

- 5.1. The prices of the products refer to the price list in force at the time of acceptance of the sale offer by the Buyer or at the time Ekinex S.p.A. issues the order confirmation.
- Ekinex S.p.A. reserves the right to modify the current price list at any time, after written notice to the Buyer, in the event of increases in the cost of raw materials, labour costs or any other factor leading to a significant increase in production costs. The prices of the products are always Ex-Carrier (FCA Incoterms 2010) and therefore the risks related to the supply shall pass to the Buyer at the time the products are handed over to the carrier, unless otherwise agreed upon in writing between the parties.
- 5.2. Payments must be made in accordance with the relevant information contained in the sales offer or order confirmation. Payments and any other sum due for any reason to Ekinex S.p.A. shall be made at its domicile and, unless otherwise agreed, in Euros.
- 5.3. Any delay or irregularity in payment gives Ekinex S.p.A. the right to
- suspend ongoing supplies, even if not related to the payment in question;
  - vary the terms of payment and discount for subsequent supplies, including by requiring advance payment or the provision of additional guarantees;
  - demand, from the due date for payment and without the need for formal notice, default interest on the sum still due, at the rate provided for by the rules of the law currently in force for commercial transactions (in particular Legislative Decree 231/2002 and subsequent additions), without prejudice in any case to the right of Ekinex S.p.A. to claim compensation for any additional costs incurred damage suffered. Moreover, in the above mentioned cases, any amount due to Ekinex S.p.A. for any reason whatsoever becomes immediately due. The Buyer shall be obliged to pay the products in full even if exceptions, disputes or controversies arise which will only be settled after payment of the amount due;
  - terminate the contract pursuant to Article 1456 of the Italian Civil Code by notifying by registered letter with return receipt or certified e-mail the intention to exercise this right. The termination shall be effective for both parties from the date of receipt of the communication.

## 6. TRANSPORT AND DELIVERY OF PRODUCTS

- 6.1. The delivery of the goods is Ex-Carrier (FC Incoterms) and therefore the risks relating to the supply pass to the Buyer at the moment the products are handed over to the carrier, unless otherwise stated written agreements between the parties.

The delivery terms, unless expressly agreed otherwise, are purely indicative. In the event that the execution of the order is prevented by the occurrence of circumstances of force majeure, by the failure to regularity of supplies of raw materials or other unforeseeable circumstances occurring, the delivery terms shall be deemed extended and new terms shall be determined by mutual agreement between the parties, without any compensation and/or damages being awarded for the delay in delivery.

- 6.2. Upon delivery of the goods by the courier, the Customer is obliged to check that the contents of the package delivered correspond to what was ordered and indicated in the invoice sent by email.

Any damage to the packaging and/or to the product or the mismatch between the number of packages and the invoice must be reported within 3 working days of delivery to customer service of Ekinex S.p.A. at the following e-mail address sales@ekinex.com. After the expiry of this period, the customer may no longer make any complaints about the external characteristics of the product delivered as well as on the number of packages received.

## 7. FORCE MAJEURE

- 7.1 Force Majeure is the occurrence of an event or circumstance ("Force Majeure Event") which prevents a party from performing one or more of its contractual obligations if, and to the extent that, the party who suffers the event feels:
- that such impediment is beyond its reasonable control;
  - the event could not reasonably have been foreseen at the time of the conclusion of the contract;
  - that the effects of the impediment could not reasonably have been avoided or overcome by the Interested Party.
- 7.2 Where a party fails to perform one or more of its contractual obligations because of the non-performance of a third party, entrusted by the party to perform all or part of the contract, that party may invoke force Majeure only to the extent that the requirements of paragraph 1 are met by both the party and the third party.
- 7.3 In the absence of proof to the contrary, the following events suffered by a party shall be presumed to satisfy the conditions of paragraph 1 of this clause and that party shall only have to prove the existence of the condition in paragraph 1.
- war (whether declared or not), hostilities, invasion, acts of a foreign enemy, extensive military mobilisation;
  - civil war, riot, rebellion, revolution, military force or usurpation of power, insurrection, acts of terrorism, sabotage or piracy;
  - currency or trade restrictions, embargoes, sanctions;
  - acts of authority, whether lawful or unlawful, compliance with laws or governmental orders, regulations, expropriation, confiscation of property, requisition, nationalisation
  - plague, epidemic, natural catastrophe or extreme natural events;
  - explosion, fire, destruction of equipment, prolonged suspension of transport, telecommunications or power
  - generalised social conflicts, such as, in particular, boycotts, strikes and lock-outs, white strikes, occupation of factories and buildings.
- 7.4 The Interested Party shall notify the other party without delay of the occurrence of the event.

- 7.5 The party who successfully invokes this Clause shall be released from its obligation to perform its contractual obligations, from any liability for damages or other contractual remedy for non-performance, from the time the event inhibits the performance of its contractual obligations, provided that it has been notified without delay. If notice of the event has not been given promptly, the release takes effect from the time when the notice reaches the other party. The other party may suspend performance of its obligations, if any, from the date of the notice.
- 7.6 If the effect of the impediment or event invoked is temporary, the consequences referred to in paragraph 5 shall occur only to the extent and for as long as the impediment or event invoked prevents the interested Party from performing its contractual obligations. The Interested Party shall inform the other Party as soon as the impediment ceases to prevent the performance of its contractual obligations.
- 7.7 The Interested Party shall take all reasonable steps to limit the effects of the invoked event on the performance of its contractual obligations.
- 7.8 If the duration of the invoked impediment has the effect of substantially depriving one or both parties to the contract of what they could reasonably expect under the contract, each party shall have the right to terminate the contract by giving notice to the other party within a reasonable period. The parties agree that, unless otherwise agreed, the contract may be terminated by either party if the duration of the impediment exceeds 120 days.
- 7.9 If paragraph 8 applies, and one of the parties has derived a benefit from the performance of the contract before its termination, it will be obliged to compensate the other party for the value of that benefit.

## 8. GUARANTEES

- 8.1. Ekinex S.p.A. guarantees the conformity of the Ekinex® products with the legislation and technical standards in force in the EEC.
- 8.2. Ekinex S.p.A. guarantees that the quality and type of the delivered products correspond to the contract and that they are free from defects that could make them unsuitable for the use for which they are intended.

The guarantee for construction defects is limited to those defects of the products that are attributable to defects in the material used or to design and construction problems attributable to Ekinex S.p.A..

All Ekinex® products sold by Ekinex S.p.A. are covered by the warranty for good functioning and the warranty for defects and/or faults in design and manufacture for a period of 24 months and therefore also in accordance with the Consumer Code if the end user is a consumer.

- 8.3. The warranty operates from the date of delivery of the goods by Ekinex S.p.A., except for the parts that are subject to normal wear and tear. After the expiration of this period, the warranty ceases, even if the products have not been put into operation for any reason at the end user.

Please note that the warranty on the products purchased from Ekinex S.p.A. is subject to the full payment of the products.

- 8.4. The above mentioned warranty is effective on condition that the products have been stored and used in accordance with the instructions in the General Catalogue and the technical data sheets provided by Ekinex S.p.A., that no repairs, modifications or alterations have been carried out without the prior written consent of Ekinex S.p.A. and that the defects found have not been caused by chemical or electrical agents.
- 8.5. The Purchaser shall report any defects in writing no later than 8 days after the delivery of the products, while the report of any hidden defects and/or operating defects (that can only be detected after the use of the product) must be made within 8 days after the discovery of the defect.
- The warranty does not apply in the event of malfunctions of the software installed on the Product, which are due to overloads, electrical phenomena due to atmospheric events, interruptions and/or suspensions of electricity.
- 8.6. The notification of defects, including hidden defects, must be made in writing to Ekinex S.p.A. by sending a communication to support@ekinex.com within the prescribed period, indicating 1) the reference of the invoice with which the product was purchased, 2) the serial number of the product, 3) a brief technical report of the defects or non-conformities found and 4) if the end user is a consumer, the communication with which the latter has complained about the defect.
- 8.7. If the purchaser does not allow Ekinex S.p.A. to carry out any reasonable checks as requested by Ekinex S.p.A. and does not return the defective products to Ekinex S.p.A. within 60 days after delivery, the warranty right is forfeited.

In order to return the defective products, Ekinex S.p.A. shall, unless otherwise agreed, collect the defective material at its own expense according to the instructions on the day and place agreed upon by the parties. After the return, the defective products shall become the exclusive property of Ekinex S.p.A..

After the expiration of the above mentioned terms, Ekinex S.p.A. shall consider the latter as forfeited from the warranty and therefore invoice the products sent to replace the defective ones and consequently request the payment of the same.

- 8.8. Ekinex S.p.A., a) supply products of the same type (or equivalent) and quantity of those found to be defective free of charge at the registered office of the purchaser (DAP Incoterms 2010), subject to the return of the replaced products by the customer in the terms and conditions stated in paragraph 7. b) repair the defective products at the customer's premises, in accordance with the terms and conditions stated in paragraph 7. 7: b) repair the defective products if Ekinex S.p.A. does not find the necessity or urgency for an immediate replacement of the same; c) issue a credit note in favour of the Purchaser for an amount equal to the value indicated on the invoice of the returned products.

Ekinex S.p.A. shall only provide in the above ways if the purchaser has done everything within its competence.

Unless otherwise agreed between the Parties, it is understood that all the expenses related to the interventions carried out by the technical assistance of Ekinex S.p.A. shall be borne by the same.

Both in case of replacement and repair of defective products or components, the original warranty period shall continue to run, which shall not be renewed.

It should also be noted that once the correctness of the warranty request has been established Ekinex S.p.A. will only replace the defective products as indicated in this point 7.8, thus excluding that the customer may request the termination of the contract and/or compensation for damages.

- 8.9 In the event that the defects of the products are not attributable to Ekinex S.p.A., the costs of repair and replacement of the products will be charged to the customer.

The warranty referred to in this article is in lieu of the legal warranties for defects and conformity and excludes any other possible liability of Ekinex S.p.A. arising from the products supplied. In particular, the Purchaser may not make any other claims for damages and Ekinex S.p.A. shall not be held responsible for indirect or consequential damages.

# General terms of sale

## 9. INDUSTRIAL PROPERTY

9.1. Ekinex S.p.A. remains the exclusive owner of the patents, drawings, projects and everything used for the manufacture of the Products, which the Purchaser therefore undertakes not to hand over to third parties, reproduce or use. If the manufacture of the Products is carried out by Ekinex S.p.A. upon the specific request and technical documentation of the Buyer, Ekinex S.p.A. shall not assume any responsibility for the infringement of industrial property rights of third parties, which shall instead be the exclusive responsibility of the Buyer, who undertakes to guarantee and keep Ekinex S.p.A. indemnified and unharmed against any claim made against it.

9.2. The Purchaser undertakes to use the trademarks of Ekinex S.p.A. only for the purpose of identifying, advertising and selling the Products, and shall refrain from depositing them or having them deposited without the prior written consent of Ekinex S.p.A..

## 10. TERMINATION AND WITHDRAWAL

10.1 The buyer, in accordance with article 1454 of the Italian civil code, must give Ekinex S.p.A. a written notice to comply with the contract within a period of time that is not less than 30 days, before acting to terminate the contract due to non-fulfilment. If Ekinex S.p.A. has started to perform within this period, the buyer shall not be able to terminate the contract. (A termination period for Ekinex may also be included, but the termination for non-payment may be decided on the basis of the obligations imposed on the customer in addition to the payment).

10.2 Both parties may withdraw from the contract, however in addition to the provisions of Italian law Ekinex S.p.A. may also withdraw from the contract in the event of a force majeure event as specified in Article 7 of the general terms and conditions of sale prepared by Ekinex S.p.A..

Both parties must therefore communicate their intention to withdraw from the contract by registered letter or certified email and the withdrawal will take effect from the date of receipt of the communication.

## 10. COMPENSATION FOR DAMAGES

10.1. The liability of Ekinex S.p.A., whether arising from the execution or non-execution of the contract, from the warranty, from an illegal act or from an objective liability, shall not in any case exceed the value of the product to which this liability relates. Under no circumstances shall Ekinex S.p.A. be liable for loss of profit or loss of use or downtime of the product or any associated machinery, for claims by the Buyer and/or third parties relating to the aforementioned damages or for any other indirect or consequential damages.

## 11. CONFIDENTIALITY

11.1. The Purchaser agrees to (i) treat the information/data/documents/know how/documents received and/or learnt from Ekinex S.p.A. as confidential, (ii) limit the use of such confidential information/documents and the access to them for purposes related to the execution of the contract. Confidential information/documents may not be reproduced without the prior written consent of Ekinex S.p.A., and all copies of such information/documents shall be immediately returned upon request by Ekinex S.p.A..

The above provisions do not apply to information that: (i) is public or becomes public other than by disclosure by the Buyer, its employees or collaborators, or (ii) was in the possession of the Buyer before it was received by Ekinex S.p.A. or (iii) was disclosed by sources that are not subject to the restrictions to which the Buyer is subject regarding its use, or (iv) can be disclosed to third parties based on a written authorization of Ekinex S.p.A.

## 12. APPLICABLE LAW AND PLACE OF JURISDICTION

12.1. These General Conditions and the related supply contracts shall be governed by Italian law.

The Court of Novara shall have exclusive jurisdiction over any dispute relating to or in any case connected to the contracts to which these General Conditions apply.

## 13. COVID-19 CLAUSE

13.1 By signing this deed, the Purchaser declares that he is aware that the epidemiological emergency in progress due to the spread of the Coronavirus (Covid-19) and the regulations adopted to combat the aforementioned pandemic could have an effect on the fulfilment and execution of orders placed with Ekinex S.p.A..

13.2 Ekinex S.p.A. reserves the right to extend the terms, apply additional costs or amend these general terms and conditions of sale in the event that the condition referred to in the previous point occurs, after notifying the Purchaser.

## 14. CONTACTS

14.1 Indicate Ekinex's contact details + addresses for any communications.

## 15. VEXATIOUS CLAUSES

15.1 The customer expressly declares that he/she accepts and approves in accordance with articles 1341 and 1342 of the Civil Code the following clauses:  
2. Applicable law and competent court: 5. Terms of payment: 6. Transport and delivery of products: 8. Guarantees: 10. Applicable law and competent court: 13 Covid-19 clause.

## Summary

<b>COMPANY</b>	<b>7</b>
The automation of buildings	9
The KNX standard	10
The advantages	12
The Ekinex® devices	15

## WALL-MOUNT DEVICES

<b>SIGNUM</b>	<b>19</b>
Signum Deep	22
Signum Surface	24
Signum pushbuttons	26

<b>20VENTI SERIES</b>	<b>33</b>
20venti Deep	36
20venti Surface	38
<b>Pushbuttons</b>	<b>43</b>
4/8-fold pushbutton with backlit text/symbols and proximity sensor	44
8-fold pushbutton with backlit text/symbols and proximity sensor for rectangular wall-box	45
5/10-fold pushbutton with backlit text/symbols and proximity sensor	46
10-fold pushbutton with backlit text/symbols and proximity sensor for rectangular wall-box	47

<b>FF SERIES</b>	<b>49</b>
FF Form	52
FF Flank	54
FF 'NF	56
FF Deep	58
FF Surface	60
<b>Pushbuttons</b>	<b>63</b>
4-fold basic pushbutton	64
4-fold pushbutton and room thermostat	65
6-fold pushbutton	66
<b>Room thermostat</b>	<b>68</b>
Easy room thermostat	72
Room thermostat	73
Room thermostat with relative humidity sensor	74
<b>Touch&amp;See</b>	<b>76</b>
Touch&See display	80
Touch&See display with 2-fold pushbutton	81

<b>71 SERIES</b>	<b>83</b>
71 Form	86
71 Flank	88
71 'NF	90
71 Deep	92
71 Surface	94
<b>Pushbuttons</b>	<b>97</b>
4-fold basic pushbutton	98
4-fold basic pushbutton and room thermostat for rectangular wall-box	99
4-fold pushbutton and room thermostat	100
4-fold pushbutton and room thermostat for rectangular wall-box	101

# General index

<b>Room thermostat and multisensors</b>	<b>105</b>
Room thermostat	106
Room thermostat for rectangular wall-box	107
Multisensor quality air with regulator	108
Multisensor quality air with regulator for rectangular wall-box	109
Multisensor with humidity, TVOC and CO2 eq. regulator	110
Multisensor with humidity, TVOC and CO2 eq. regulator for rectangular wall-box	111

<b>ESÉGUO VOICE ASSISTANT</b>	<b>113</b>
Eségúo voice assistant	120
Eségúo voice assistant for rectangular wall-box	121

<b>HOTEL SOLUTIONS</b>	<b>123</b>
Card reader	130
Card holder	131
Cards programmer	132
Desktop cards programmer kit	133
Accédo software	134
Smart-card	135
Tosibox® Lock router	136
USB Tosibox® Key	137

<b>SENSORS</b>	<b>139</b>
Movement sensor	142
Ceiling mounted presence sensor	143
Presence sensor for outdoor mounting	145

<b>POWER SOCKETS / KEYSTONE SYSTEM</b>	<b>147</b>
Power sockets and USB	161
Power socket and USB A-C Italian version	162
Power socket and USB A-C Schuko version	163
Keystone system	166

<b>ACCESSORIES</b>	<b>176</b>
Rockers for pushbuttons 20venti series	178
Rockers for 4-fold pushbuttons FF series	179
Rockers for 6-fold pushbuttons and Touch&See FF series	180
Set 2 rockers for room thermostats FF series	181
Rockers for 4-fold pushbuttons 71 series	182
Full front cover for Multisensor	183

<b>THERMOFORMED PROTECTION</b>	
Thermoformed protection for Ekinex pushbuttons	184

<b>FRAMES</b>	
Square frame Form version	185
Rectangular frame Form version	185
Square frame Flank version	186
Rectangular frame Flank version	186
Double frame Form version	187
Double frame Flank version	187

<b>PLATES</b>	
Square plate	188
Adapter for square plate	188

## General index

Rectangular plate	189
Adapter for rectangular plate	189
Double plate	190
Adapter for double plate	190
Deep square plate	191
Adapter for Deep square plate	191
Deep rectangular plate	192
Adapter for Deep rectangular plate	192
Deep double plate	193
Adapter for Deep double plate	193
Deep triple plate	194
Adapter for Deep triple plate	194
Surface square plate	195
Adapter for Surface square plate	195
Surface rectangular plate	196
Adapter for Surface rectangular plate	196
Surface double plate	197
Adapter for Surface double plate	197

### TEMPLATES AND SUPPORTS

Template for Surface plates	198
Templates for installation of civil series components on 'NF/Deep applications	199
Square mounting support	200
Rectangular mounting support	200
Template for side-by-side mounting of FF series with Form / Flank frames	201

### SWISS MARKET

Solutions for the Swiss market	202
Mounting supports	209
Double plate with 68 or 71 mm centre distance window	210
Adapter for square plate and power socket (Feller)	211
Adapter for double plate	211

### MATERIALS AND FINISHES

Colour solutions	212
Ekinex chooses Fenix NTM®	213

### SYMBOLS CUSTOMIZATION

Symbols for rockers customization	214
Single symbols	215
Lighting	215
Multimedia	215
Health and care	215
Door and garage	216
Hotel	216
Energy	216
Climate	217
Scenarios	217
Markers	217
Double symbols	218
Customization with text	218

### HOW TO ORDER A ROCKER

Rockers for pushbuttons 20venti series	219
Rockers for pushbuttons FF series	220
Kit 2 rockers for room thermostats FF series	221
Rockers for pushbuttons 71 series	222

### HOW TO ORDER A FRONT COVER

Multisensors	224
Voice assistant	225
Keystone system	225
Power sockets	226
Power sockets USB	227

### HOW TO ORDER A FRAME

Frame Form version	228
Frame Flank version	229

### HOW TO ORDER A PLATE

SQUARE PLATE	230
RECTANGULAR PLATE	231
DOUBLE PLATE	232
DEEP SQUARE PLATE	234
DEEP RECTANGULAR PLATE	236
DEEP DOUBLE PLATE	237
DEEP TRIPLE PLATE	239
SURFACE SQUARE PLATE	240
SURFACE RECTANGULAR PLATE	241
SURFACE DOUBLE PLATE	242

## DIN-RAIL MOUNT MODULES 245

<b>Power supplies and System devices</b>	<b>248</b>
640 mA bus power supply	249
1280 mA bus power supply	250
Time / astronomical digital switch	251
USB interface	252
Line / area coupler	253
IP secure interface	254
IP secure router	255

### Universal interfaces 256

Configurable logical module	257
Universal interface 2 (4) IN, 2 (4) OUT	258
Universal interface 4 configurable IN, 4 OUT	259
Universal interface 4 IN, 2 OUT (relay 5A)	260
Load monitoring and control interface	261
Current transformer (TA) for EK-CF2-TP interface	262
Support for DIN-rail mounting	263
Spring for snapping on wall-mount devices	263

### Inputs 264

8-fold binary input	265
---------------------	-----

### Actuators 266

4-fold binary output	267
8-fold binary output	268
8-fold binary output / 4-fold blind actuator	269
16-fold binary output / 8-fold blind actuator	270

### I/O Modules 271

Input/output module for office applications	272
Input/output module for hotel applications	273

### Dimmers 274

2-fold dimming actuator	275
4-fold RGBW LED dimmer	276
4-fold 0-10 V actuator	277
Dimmer 90-230V-50/60Hz	278

### DALI Dimmers 279

DALI Dimmer 12 / 48 Vdc	280
DALI Dimmer 90-230V-50/60Hz	281
DALI Dimmer 12 / 48V dc 4 channels	282
DALI Dimmer 90-230V-50/60Hz 4 channels	283

### Thermoregulation 284

Fancoil actuator / controller 3-speed fan control	285
Fancoil actuator / controller 0-10 V fan control	286
Fancoil actuator / controller full version	287
8-fold actuator / controller for electrothermal valve drives	288
Mixing actuator	289
NTC 10 kΩ temperature sensors	290
Modbus / KNX interface for RDZ air handling units	291

### Gateway 292

Gateway Modbus RS485 - KNX	293
Gateway Modbus TCP/IP - KNX	294
Gateway BACnet - KNX	295
Gateway DMX - KNX	296
Gateway M-Bus - KNX	297
Gateway PROFINET - KNX	298
Gateway DALI - KNX	299
Voice control interface - KNX	300
Konnect4 - KNX	301
CoolMasterNet with integrated KNX module	302

### Metering 303

Network analyzer	304
Kit with network analyzer and Rogowski coils	305
80 A MID single phase energy meter	306
6 A MID three phase energy meter	307
80 A MID three phase energy meter	308
Modbus communication module	309

### Accessories for DIN-rail modules 310

Terminal blocks	310
Bus cable	311

## SUPERVISION 313

Ekinex Delégo: the system	317
Renewed graphic interface	318
Simplified configuration and maintenance	321
Complete versatility	322
Main features - Licenses	323
Delégo server	324
Delégo panel	325

## TOOLS 327

Planner	328
Bim	329

## SALES KIT 331

Pocket Box	332
Color Ring	332
Glam Box	333
Color Box Pro	333
Style Box	334
Style Case	334
Tech Case	335

## PROJECTING, CONFIGURATION AND COMMISSIONING 336

KNX Technology	338
Normative references	342
Energy efficiency in buildings	344

## GENERAL TERMS OF SALE 347

## CONTACTS 355

#### **Ekinex® product catalogue - March 2023**

The technical information included in this catalogue is to be deemed purely indicative.  
The company reserves the right to modify any piece of information with no advance notice.

For installation, connection and commissioning of Ekinex® devices, please refer to the related technical documentation.

For the availability of Ekinex® products on your market, please contact the Ekinex® sales department (sales@ekinex.com).

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#### **Credits**

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Graphic Design	Marketing & Communication Ekinex®
Product development	R&D Ekinex®
Editing	R&D Ekinex®
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## **Contacts**

**Ekinex S.p.A.**

Via Novara, 37

I-28010 Vaprio d'Agogna NO - ITALY

T +39 0321 1828980

info@ekinex.com

www.ekinex.com

Ekinex is member of:



[www.ekinex.com](http://www.ekinex.com)