eelectron®

Products catalogue

KNX®

made in Italy

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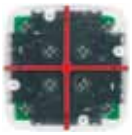

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Eelectron® is an Italian company with a focus on designing and manufacturing electronic devices dedicated to building and home evolution and closely related software tools.

As of year 2005, Eelectron® applies to KNX association, fulfilling his requirements with the main goal of giving a contribution to the diffusion of the world's only open Standard for home and building automation.

Eelectron® philosophy of comprehensive aesthetic design and engagement in developing highly innovative devices, matched with KNX Interoperability and compliance with international requirements, has engendered Eelectron®'s distinct reputation.

Eelectron® experience is devoted to end users, with a constant training activity, assistance on products and a continuous development that deserves particular attention to upcoming needs and applications, to energy saving and to solutions directed to make Users life easier and simpler.

We develop our products with their users, having always in mind that they are the drivers of our future.

SYSTEM COMPONENTS

POWER SUPPLY 160 - 320 - 640 mA

Power supply for generating bus voltage on a line with a maximum current of 160, 320 or 640mA according to the model. With integrated choke to decouple the power supply voltage from the bus. Connection with screw terminals. Mounting on DIN rails EN 50022. Connection via bus terminal.

Order Codes

160 mA Power Supply	**PS00B01KNX**
320 mA Power Supply	**PS00B02KNX**
640 mA Power Supply	**PS00B03KNX**

Technical Features

Dimensions
- H 90 x W 72 x D 58 mm for PS00B01KNX & PS00B02KNX
- H 90 x W 110 x D 58 mm for PS00B03KNX

Mounting
- Width (UM = 18mm) 4 mod. DIN (PS00B01KNX & PS00B02KNX)
- 6 mod. DIN (PS00B03KNX)

Connection
- Bus line connecting terminal, wire max section 0,8mm²
- Power supply 230V with plug-in terminals, cable max section 2,5mm²

Supply
- Line voltage: 230V AC, 50-60Hz

Output voltage
- 29 ± 1V DC

Output current / model
- Max 160mA, 320mA, 640mA with protection against short circuit

Control elements
- 1 switch to reset output power

Reports
- 1 green LED for power bus
- 1 red LED for overload warning

BUS LINE COUPLER KNX

Couplers are system devices by mean of which a KNX system can be hierarchically structured. Couplers allow to transfer data between electrically indipendent parts of a KNX installation. Telegram traffic is reduced throughout the installation by the use of filter tables in couplers.

Order Code

Bus Line Coupler KNX	**PS00B05KNX**

Technical Features

Dimensions
- H 80 x W 36 x D 58 mm

Mounting
- Width (UM = 18mm) 2 mod. DIN

Connections
- Main line bus, KNX connection terminal, cable section 0,8mm²
- Secondary line bus, KNX connection terminal, cable section 0,8mm²

Supply
- From the KNX bus 21 .. 30 VDC SELV

Control elements
- 1 button: Programming for ETS

Indicators
- 1 red LED for programming ETS
- 1 green LED for signaling device in operation
- 1 yellow LED to indicate the main line of communication
- 1 yellow LED to indicate the secondary line of communication

USB - IP - IP ROUTER INTERFACE / KNX

These devices allows the communication between computers, IP devices with the KNX bus system.
- KNX / USB 1.1 or 2 interface for direct connection to your computer
- KNX / IP interface for direct or LAN connection for programming or supervision of the KNX system.
- KNX / IP router, is used for connectionless and simultaneous transmissioni of KNX telegrams to several devices. It can also be used as a programming interface KNX bus system.

Order Codes

USB / KNX Interface	**IN00A01USB**
IP / KNX Interface	**IN00A01IPI**
IP ROUTER / KNX Interface	**IN00A01RIP**

Technical Features

Weight and Dimensions
- Weight: 100 g Dimensions: H: 90 x W: 36 x D: 65 mm

Mounting
- Width (UM = 18mm) 2 mod. DIN

Connections for USB / KNX
- Bus line with bus connecting terminal, wire max section 0,8mm²
- USB type B socket

Connections for Interface IP - IP Router / KNX
- Bus line bus connecting terminal, wire max section 0,8mm²
- complementary power supply: 2-wire screw terminals with max section 4 mm²
- Network RJ45 LAN jack

Supply
- From the KNX bus 21 .. 30 VDC SELV <300 mW
- Additional 5V DC <200 mW through USB for KNX/USB interface
- Additional 12/24 V DC for KNX/IP interface
- Additional 12/24 V DC for KNX/IP Router

Indicators
- 1 green LED active connection
- 1 yellow LED notified of data traffic

ACTUATORS - INTERFACE - PRESENCE SENSOR KNX

PUSH BUTTON INTERFACE 2 IN - 2 OUT LED

PUSH BUTTON INTERFACE 4 IN - 4 OUT LED

The product is dedicated to interface of clean contacts with 2 or 4 input channels, such as sensors, traditional buttons, ... and 2 or 4 low voltage/current output channels to drive LED signal indicator lamps.
The inputs can be configured for most common applications: actuators, dimmers, shutters and scenarios.

Order Codes

Push Button Interface 2 IN - 2 OUT LED	**IO22C02KNX**
Push Button Interface 4 IN - 4 OUT LED	**IO44C02KNX**

Technical Features

Dimensions
- H: 43 x W: 36 x D: 17 mm

Mounting
- Fit in all standard derivation boxes: 2-3 modules rectangular and round

Connections
- Bus line: 2 bus connection terminals, max wire section: 0,8mm²
- Inputs and outputs: 12-pin plug connector wired with 0,2 mm²

Supply:
- From the KNX bus 21 .. 30 VDC SELV power consumption <10mA

Specific Inputs
- 2 or 4 digital inputs for clean contacts
- Maximum length 10 meters twisted cables

Specific Outputs
- 2 / 4 outputs for driving LED - Max 0.5 mA each

INWALL 8 INPUT - 4 LED OUTPUT MODULE

AD84A01KNX module includes 4 digital inputs to interface clean contacts and 4 analog or digital inputs for clean contacts or temperature sensors and 4 led outputs.
Digital inputs can interface sensors, traditional buttons, etc;4 low voltage/current output channels to drive LED signal indicator lamps.
Inputs 5 to 8, set as analog inputs, enable up to 2 temperature probes (with On/Off threshold) and 2 thermostats to control heating and cooling equipments, valves, 2 and 4 pipes fan coils.

Order Code

Inwall 8 Input - 4 Led Output Module	**AD84A01KNX**

Technical Features

Mounting in wall box:
- Dimensions: H 43 x W 36 x D 24 mm

12 Channels Configurable as:
- [01 ÷ 04] 4 digital inputs (clean contacts)
- [05 ÷ 08] 4 digital or analog inputs (for clean contacts or temperature sensors)
- [09 ÷ 12] 4 digital outputs (outputs for LED)

Digital Input - Key Features:
- 8 channels [01 ÷ 08] for clean contacts
- Maximum length 30 m twisted wires - input [01 ÷ 04]
- Maximum length 10m of twisted wires - inputs [05 ÷ 08]
- Wired with 0,2 mm² - 18 cm length - inputs [01 ÷ 04]
- Connection through 6-pin screw terminal - inputs [05 ÷ 08]
- Blinds and shutters control
- Scenarios

Analog Inputs - Key Features:
- 4 Channels [05 ÷ 08] Configurable as temperature sensor with Eelectron NTC sensor (cod.TS01A01ACC & TS01B01ACC)
- 2 Channels [05 ÷ 06] Configurable as thermostat

Digital Outputs - Key Features:
- 4 outputs for driving LED 0.3 mA / channel
- Use with LED Eelectron (Code LD00A01ACC / LD00A11ACC)
- Wired with 0,2 mm² 18 WNG - inputs [01÷ 04]

Heating and cooling modes
- Command with HVAC mode or setpoint
- Setpoint modification through bus
- 2 points ON / OFF and PWM control algorithm
- 3-speeds fancoil control
- OFF mode on window open detection

UNIVERSAL 4 IN - 4 OUT

UNIVERSAL 4 IN - 4 OUT C-LOAD

The DIN RAIL 4 Input / 4 Output Modules IO44B02KNX and IO44B02KNX-C are an EIB/KNX DIN rail mounting devices useful to interface commands (e.g. push buttons) or loads (e.g. lamps) for any kind of applications.
The devices is equipped with 4 binary inputs (clean contacts) and 4 relay outputs suitable for capacitive loads (-C code). Inputs can be configured to conventional switching devices, e.g. push buttons, switches, floating contacts, for switching functions with pulse edge evaluation (e.g. rising or falling edge, toggle, etc...). Inputs can be configured as output channels to drive LED in synoptic monitoring panels. Inputs can be used as switch , dimming, shutter control, scenarios; outputs include switching function, scenarios, logic functions.
Outputs can act as interlocked channels; this function may be used to drive fan coils with 2-pipes / 3 speeds or 4-pipes / 2 speeds.
Devices are intended to be installed on DIN rail.

Order Codes

Universal 4 IN - 4 OUT	**IO44B02KNX**
Universal 4 IN - 4 OUT C-Load	**IO44B02KNX-C**

Technical Features

Physical specifications and Dimensions
- Dimensions: (W x H x D): 72 x 90 x 58 mm
- Mounting width: 4 DIN modules (1 SU=18 mm)

Connection
- Bus line, bus connecting terminal, wire max section 0,8mm²
- Outputs: 2 screw connectors by channel max section 4 mm²
- Inputs: 3 connectors every 2 inputs, max. section 4 mm²

Power Supply
- From KNX Bus 21..30 V DC SELV

Features
- 4 binary inputs for clean contacts
- Max length 30m twisted cables

Features relay outputs for version IO44B02KNX
- Resistive: Max 16 A - 230 VAC
- Incandescent lamps: Max 10 A
- Engines and motor reductors : Max 10 A
- Fluorescent lighting transformer. Electronic: Max 2 A
- Fluorescent lamps: using an external relay

Features relay outputs for version IO44B02KNX-C
- Resistive: 16 A Max
- Incandescent lamps: 10 A Max
- Motors and motor reductors: 10 A Max
- Fluorescent lighting transformer. Electronic: 6 A Max
- Fluorescent lamps (Max. 140 μ) (700W Max)

UNIVERSAL 8 IN - 8 OUT

UNIVERSAL 8 IN - 8 OUT C-LOAD

The DIN RAIL 8 Input / 8 Output Modules IO88B02KNX and IO88B02KNX-C are EIB/KNX DIN rail mounting devices useful to interface commands (e.g. push buttons) or loads (e.g. lamps) for any kind of applications.
The devices are equipped with 8 binary inputs (clean contacts) and 8 relay outputs. Inputs can be connected to conventional switching devices, e.g. push buttons, switches, floating contacts, for switching functions with pulse edge evaluation (e.g. rising or falling edge, toggle, etc...). Inputs can be configured as output channels to drive LEDs in synoptic monitoring panels.
Inputs can be used to for switch, dimming, shutter control, scenarios; outputs include switching function, scenarios, logic functions.
Relay from 5 to 8 are equipped with manual command and can be switched manually.
Devices are intended to be installed on DIN rail.

Order Codes

Universal 8 IN - 8 OUT	**IO88B02KNX**
Universal 8 IN - 8 OUT C-Load	**IO88B02KNX-C**

Technical Features

Physical specifications and Dimensions
- Housing: plastic
- Dimensions: (W x H x D): 72 x 90 x 58 mm
- Mounting width: 4 DIN modules (1 SU=18mm)

Mounting
- Bus Line: 2 Terminal of bus connection , Max section 0,8mm²
- Outputs: 2 screw terminals by channel max. section 4 mm²
- Inputs: 3 screw terminals every 2 inputs, max. section 4 mm²

Supply
- From Bus KNX 21..30 V DC SELV

Features
- 8 binary inputs for potential-free contacts
- Max length 30m twisted cables

Features relay outputs for version IO88B02KNX
- Resistive: 16 A Max - 230 VAC
- Incandescent lamps: 10 A Max
- Engines and motors: 10 A Max
- Fluorescent lighting transformer. Electronic: Max 2 A
- Fluorescent lamps : using an external counter

Features relay outputs for version IO88B02KNX-C
- Resistive: 16 A Max
- Incandescent lamps: 10 A Max
- Motors and motor reductors: 10 A Max
- Fluorescent lighting transformer. Electronic: 6 A Max
- Fluorescent lamps (Max. 140 μ) 700W Max

MULTIFUNCTIONAL 8 IN - 8 OUT

The DIN RAIL 8 Input / 8 Output Module IO88E01KNX is an EIB/KNX DIN rail mounting device useful to interface commands (e.g. push buttons) or loads (e.g. lamps) for any kind of applications. The device is equipped with 8 binary inputs (clean contacts) and 8 binary relay outputs. Inputs can be connected to conventional switching devices, e.g. push buttons, switches, floating contacts, for switching functions with pulse edge evaluation (e.g. rising or falling edge, toggle...). Inputs can be configured with ETS SW, as output to drive Leds. Inputs can be used to for on/off commands, dimming, shutter control, scenarios; outputs include switching function, scenarios and control logic function.

The 8 outputs on board can be configured:
- Independently for load control
- Independently for continuous switching (PWM) for electric valves (solenoid actuators)
- Combined for the management of shutters and blinds, up to 4 channels
- Combined for management of motor reductor or for solenoid valves with 3-points control or for ventilation, up to 4 channels
- Combined for fan coil actuator with 2/4 pipes systems for Heating / Cooling and 3 speed motors.

Order Code

Multifunctional 8 IN - 8 OUT	**IO88E01KNX**

Technical Features

Physical specifications and Dimensions
- Dimensions: (W x H x D): 72 x 90 x 58 mm
- Mounting width: 4 (1 SU=18mm)

Mounting
- Bus Line: 2 Terminal of bus connection , Max section 0,8mm²
- Outputs: 2 screw terminals for channel Max. 4 mm²
- Inputs: 3 screw terminals every 2 inputs, Max. 4 mm²

Power Supply
- From KNX bus 21..30 V DC SELV

Features:
- 8 binary inputs for clean contacts
- Max length 30m twisted cables

Features relay outputs
- Resistive Loads: 16 A Max - 230 VAC
- Incandescent lamps:10 A Max
- Motors : 10 A Max
- Fluorescent lighting transformer 2 A Max
- Fluorescent lamps: use always an external counter

4 INPUT - 2 SHUTTER OUT MODULE

The DIN RAIL 4 Input / 2 Shutter Outputs Module SH42A01KNX is an EIB/KNX DIN rail mounting device equipped with 4 binary inputs (potential-free) and 4 relays in order to drive 2 independent shutter actuators.
Inputs can be connected to conventional switching devices, e.g. push buttons, switches, floating contacts, and can be used for on/off commands, dimming, shutter control, scenarios. Outputs can control 2 independent drivers for shutter, blinds, roller motors; relays have hardware interlock and can run motors up to 230V AC. Outputs can be driven through local push button, located in the front of the device. A couple of LED shows the movement direction for each shutter. Local switches can be enabled / disabled manually through a switch or via bus.
Device is intended to be installed on DIN rail.

Order Code

4 Input - 2 Shutter Out Module	**SH42A01KNX**

Technical Features

Weight and Dimensions
- Dimensions: (H x W. X D) 90 x 72 x 58 mm

Mounting
- Width (UM = 18mm) 4 mod. DIN

Connections
- Bus Line: Bus Connection Terminal, 2 conductors Max section 0,8 mm²
- Outputs: 3 screw terminals per channel, Max area 4 mm²
- Inputs: 3 screw terminals for every 2 inputs, Max area 4 mm²

Supply
- KNX bus 21 .. 30 VDC SELV

Specific inputs
- .. 4 ON / OFF clean contacts control elements

Features relay Outputs:
- Resistive loads 6 A Max - 230 VAC

Control elements
- 1 button for switching between manual and automatic mode(through bus)
- 2 manual override buttons (UP and DOWN) for each channel (pressure = LONG UP / DOWN, short press the STOP /adjustment straws)

Indicators
- 1 LED for signaling manual mode
- 2 LEDs for indicating UP / DOWN or TOP / BOTTOM per channel

3 X 300W DIMMER MODULE

The 3 channel Dimmer Module is designed to drive dimmerable lighting with KNX bus and allow dimming of incandescent and halogen loads of 230V, BT and TBT. The product can control one (900 W), two (600+300 W) or three (3x300 W) independent lighting circuits.Device is intended to be installed on DIN rail.

Order Code

3 x 300W Dimmer Module	**DM03B01KNX**

Technical Features

Dimensions
- Dimensions: (H x W x D) 85 x 105 x 60 mm

Mounting
- Width 6 mod. DIN (um 18mm)

Connections
- Bus line: 2 bus connection terminals, section 0,8 mm²
- Outputs: 2 plug-in terminals for each channel section conductors from 0.75 mm² to 2.5 mm²

Supply
- From the KNX bus and power supply 230 V 50/60 Hz

Specific Outputs
- 3 power outputs with the following characteristics :
- Power: 20 W to 300 W output with the possibility of coupling between them.
- Power consumption without load 5 W

Control elements
- 1 button to set the maximum value of brightness Max. or Min.
- 1 button for manual control of each output

Indicators
- 1 red LED for programming ETS

3OUT DIMMER 1-10V

Dimmer used to control lighting circuits via a 1/10V connection, acting upon remote control dimmers or electronic ballasts. Device is intended to be installed on DIN rail.

Order Code

3OUT Dimmer 1-10V	**DM03C01KNX**

Technical Features

Dimensions
- Dimensions: (H x W. X D) 86 x 72 x 66 mm

Mounting
- Width 4 DIN modules

Connections
- Bus line: 2 bus connection terminals, max section 0,8mm²
- Outputs: 2 screw terminals for the relay contact and 2 for the change
- 1-10v, up to section conductors. 2.5 mm²

Supply
- From the KNX bus 21 .. 30 VDC SELV

Specifications 1-10V relay outputs
- 3 power outputs with the following characteristics :
- Incandescent 230V Max. 2300W
- Halogen 2300W
- Halogen lamps with magnetic transformer 1500 VA
- 1500W Halogen lamps with electronic transformer
- 1000W electronic ballast

Specifications 1-10V outputs
- - 3 outputs 50mA Max.

Control elements
- 1 button for programming ETS
- 1 button for setting the maximum value of brightness Max. or min.
- 1 button for manual control of each output

Indicators
- 1 red LED for programming ETS
- 3 output status LEDs

ENERGY METER 80A MONOPHASE WITH KNX INTERFACE

Active energy meters for single phase AC with LCD display backlight for the display of values, an input for switching rates between 2 and direct connection to 80A. The values of instantaneous power, KW / KVA h and score for tariff 1 and 2, are sent via the supplied KNX bus interface.

Order Code

Energy Meter 80 A Monophase with KNX Interface	**PM10A01KNX**

Technical Features

Dimensions

Main Features
- Case - 3 modules DIN 43880
- Fixing 35 mm DIN rail EN 60715
- Depth 70 mm
- Reference standards for active energy - EN 50470-1-3 reactive power - output pulse EN 62053-23-31

Functionality
- Connection to single-phase 2-wires
- Rates for active and reactive energy No. 2 T1 or T2

Supply
- Power supply voltage 230 VAC
- 184 VAC voltage variation range ... 276 VAC
- Nominal frequency 50 Hz
- Power consumption (MaX.) 8 VA - 0.6 W

Overload
- Permanent voltage Un 276 V / momentarily (1 s) 300 V
- Permanent current Imax 80 A / momentary (10 ms) 2400 A

Accuracy at 23 ± 1 ° C refer to the nominal values
- Energy and power according to EN 50470-3 active% ± 1 (B)
- Energy and reactive power in accordance with EN 62053-23 ± 2%

Measuring inputs
- Listing phase / W - direct
- Current range (Ist ... IMaX) 0,025 direct connection ... 80 A
- Frequency: 50 Hz
- Input waveform - sinusoidal
- Minimum current for the measurement of energy (Ist) 25 mA

S0 output according to EN 62053-31
- Pulse output for active energy and reactive
- Quantity Pulse 1000 imp / kWh
- 30 ± 2 ms pulse duration
- Power required min. 5 ... .230% ± 5 VAC / Vdd
- Maximum Series Pulse ON (Max. 230 V AC / DC) 90 mA
- Maximum Series Pulse OFF (leakage current Max. 230 VAC / DC) 1 µA

Optical Interface
- Front Calibration (precision control) LED imp / kWh 1000

ENERGY METER THREE PHASE WITH KNX INTERFACE

Active energy meter for three phase alternating with a backlit LCD display for displaying the values, an input for switching rates between 2 rates and direct connection to 80 A. The values of instantaneous power, KW / KVA h and scored for rate 1 and 2, are sent via the supplied KNX bus interface.

Order Code

Energy meter three phase with KNX interface	**PM30A01KNX**

Technical Features

Main Features
- Case 5 DIN 43880 DIN modules
- Fixing 35 mm DIN rail EN 60715
- Depth 70 mm

Reference standards:
- Active energy - EN 50470-1-3
- Reactive energy - output pulse EN 62053-23-31

Functionality
- Electricity network connection 4-wires
- Rates for active and reactive energy No. 2 T1 or T2

Power Supply
- Power supply voltage 230 VAC
- Voltage variation range 184 VAC ... 276 VAC
- Nominal frequency 50 Hz
- Power consumption (Max.) 8 -0.6 W VA

Overload
- Permanent voltage Un, phase / phase 480 V
- 1 second: phase / phase 800 V
- Permanent phase/N 276 V
- 1 second: phase/N 300 V
- Permanent current Imax 80A
- Momentary (0.5 s) 120A
- Momentary (10 ms) 2400 A

Accuracy at 23 ± 1 ° C refer to the nominal values
- Energy and power according to EN 50470-3 active ± 1% class 1 (B)
- Energy and reactive power in accordance with EN 62053-23 class 2 ± 2%

Measuring inputs
- Listing phase /N - direct
- Current range (Ist ... Imax) direct connection 0,015... 80 A
- Frequency: 50 Hz
- Input waveform - sinusoidal
- Minimum current for the measurement of energy (Ist) 15 mA

S0 output according to EN 62053-31
- Pulse output for active energy and reactive
- Quantity impulse 500 imp / kWh
- 30 ± 2 ms pulse duration
- Power required min. 5 ... .230% ± 5 VAC / Vdd

Optical interface
- Calibration Front (precision control) LED imp / kWh 1000

KNX-DMX INTERFACE

Interface between the KNX bus and the DMX512 bus. Combine items for building automation control devices dedicated to enlightenment and special effects. One-way gateway that receives telegrams from the KNX bus and data bus to DMX512. Scenarios of all 512 channels can be configured and managed with KNX group addresses.

Order Code

KNX-DMX Interface	**IC00B01DMX**

Technical Features

Dimensions
- Dimensions: 107x75x31mm

Mounting
- Width Mod 6. DIN

Operating Temperature
- -5 ° C / 45 ° C

Control Elements
- 3 x 16 potentiometers, stepper positions
- 1 button (user), 2 LEDs (user)
- 1 button programming for KNX and LED

KNX Power
- 20 - 32V DC, 150 mW

Programming
- Using the USB port

Supply
- 9-30V DC, 100mA, separated

KNX PRESENCE SENSORS - INWALL OR SURFACE MOUNT

Presence sensor dedicated to KNX installations in offices, conference rooms, schools, hospitals etc.. Up 4 different operating modes are possible: the first is standard semi-automatic or fully automatic mode (switching), the second is a semi-automatic or fully automatic mode with the constant adjustment of brightness (dimming), the third is to slave mode, the fourth is a permanent adjustment of the light (control of light is not dependent on the presence). Two target values are set (specified in Lux) and a reference value remains fixed (specified in%). The values can be modified using a communication object. Soft Start for passing reference to enlightenment.
Reflectivity for a better adjustment to environmental conditions. HVAC channels activated by push button.

Order Codes

KNX Presence Sensors - Inwall	**PD00C01KNX**
KNX Presence Sensors - Surface Mount	**PD00C02KNX**

Technical Features

Dimensions:
- 98 x 50 mm H - Model Code PD00C01KNX
- 80 x 84.5 mm H - Model Code PD00C02KNX

Supply
- 24VDC to KNX / EIB-Bus Network

Detection area:
- 360 ° circular

Range (diameter) in meters:
- Sitting 4.00 m
- Movement away 10.0 m
- Movement approaching 6.0 m

Degree of protection:
- FM IP20 / Class II / EC
- Ambient temperature: -25 ° C to +50 ° C

To download our Product Catalogue, User Manuals, Datasheets, Software and for Commercial Informations, please visit:

www.eelectron.com

eelecta®

You, in an homy and environmental world

eelecta is a product range dedicated to democratic, smart and creative design.
To the interaction between users and lighting control, energy saving, temperature control, entertainment.
To an efficient use of space.
To cost effective solutions for an eco-friendly environment.
To private homes, buildings, hospitality.
Design: Marco Fossati

A wide range:

• 3.5" colour touch panel with temperature.
• 8/4 channel KNX push button, 4/2 channel conventional switch.

A Freedom choice:

Dimmer, light, load, shutter, blinds and scene control with technology.

An intuitive usage:

• Large icons and buttons for easy usability and clear signaling
• Night localization in a smooth and soft mode.

Easy installation:

• In 2 or 3 modules round or squared boxes

Reduced cost switch solution:

4 KNX free inputs available to interface other switches and a temperature sensor embedded.
Conventional switch available in the same design to be connected to Eelecta's KNX inputs.

Powerful touch control:

Skins and screensaver, expandible icons and personalised images.
ETS configuration, coloured display, temperature sensor, IR controller and beep signal, timers, chrono multizone control.

AWARDS:

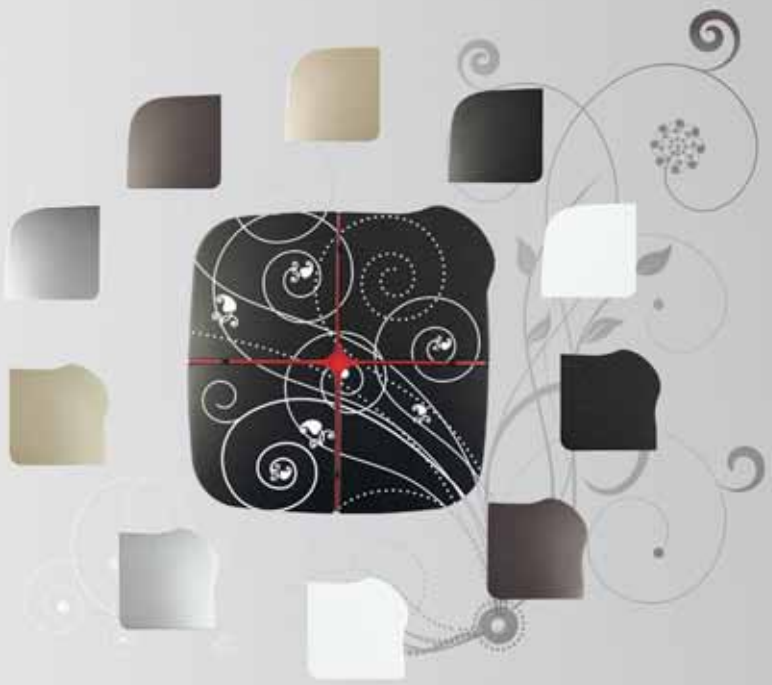
reddot design award
winner 2012

DESIGN PLUS
powered by: light+building

interior innovation award 2012
Winner

Big like this:

Eelecta is a design and architectural element shaped to leave a coloured and graphical sign in the space.
Create your artwork on:
artwork.eelectron.com



• More design
• More colours and personalized graphics: the HomePad doesn't want to be hidden
• Clear and easy function signalling throughout icons and colours

Eelecta gives you a wide range of possibilities to customize graphic and aesthetic.

Sign your style and personality.

Artwork:

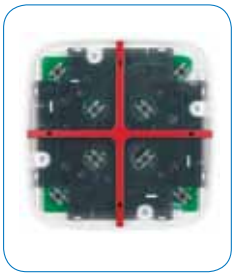
Elio Mariani

One of the creative leaders of MecArt. He goes through visual communication and image production, bringing on a critic to mass market society and using serial processes as a way to democratic art. To the account of Eelecta, he has defined 4 Artworks from his collection.

Elio Mariani and Andy Warhol
New York - 1977

EELECTA - HOMEPADS - TOUCH PANEL KNX

HOMEPAD 4 CH CONVENTIONAL - BASE



The conventional HomePad PB40AXXCON is available in 3 colors (White, Chromo & Black), the Eelecta's range is characterized by a central cross that can be personalized with different finishes and multiform Pad cover silk screen printing. The HomePad can be installed on 2 or 3 module boxes. The product has 4 contacts and must be connected with a KNX communication module or with a KNX HomePad using the 4 rear inputs available (IO44C02KNX , PB40CxxKNX – PB80BxxKNX).

Order Code

HomePad 4 CH Conventional - Base	**PB40AxxCON**

Order codes are referred to colour palette and has to be completed with functional codes (ex. PB40A11KNX).

Technical Features

Supply
- Not present

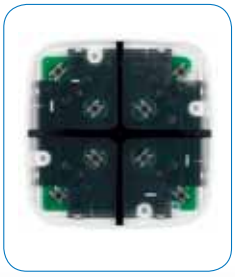
Features Inputs
- Number of Pads: 4

Electrical Characteristics
- Max 40 mA / 12V DC

Connection
- Inputs: 4 With terminals for cable connections up to 0,2 mm²

Dimensions:
- Dimensions: 110 mm x 110 mm

HOMEPAD KNX 4CH - BASE



The KNX HomePad PB40BxxKNX is available in 3 colors (White, Chromo, Black).The Eelecta's range is characterized by a central cross that can be personalized with different finishes and multiform Pads silk screen printed. The HomePad has 5 state signalling or night mode Leds ,can be installed on 2 or 3 module boxes and has 4 channels. The switch pressure can be long or short and can command sequences.

Order Code

HomePad KNX 4 CH - Base	**PB40BxxKNX**

Order codes are referred to colour palette and has to be completed with functional codes. (ex. PB40B11KNX)

Technical Features

Supply
- Through the wire EIB / KNX
- Voltage 21 .. 30V DC
- Current consumption EIB / KNX <10mA

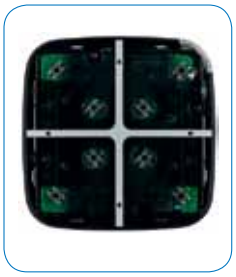
Features Inputs
- Number of Pads: 4

Outputs
- Number: 5 white LEDs

Connection
- EIB / KNX bus connecting terminal 2 of 0.8 mm²

Dimensions
- Dimensions: 110 mm x 110 mm

HOMEPAD KNX 4CH + 4 IN + THERMOSTAT



The KNX HomePad PB40CxxKNX is available in 3 colors (White, Chromo, Black), the Eelecta's range is characterized by a central cross that can be personalized with different finishes and multiform Pads silk screen printing. The HomePad has 5 state signaling or night mode Leds, can be installed on 2 or 3 module boxes. The pressure of Pads can be long or short and can command sequences. The HomePad has 4 channels and thermostat on board to manage ON/OFF actuators for conditioning and heating, electric valves zone, 2/4 pipe fancoil controlling with up 3 speed. 4 inputs are available to interface traditional switches from the same range or other conventional switches. (PB40AxxCON)

Order Code

HomePad KNX 4 CH + 4 IN + Thermostat - Base	**PB40CxxKNX**

Order codes are referred to colour palette and has to be completed with functional codes (ex. PB40C11KNX).

Technical Features

Supply
- Through the wire EIB / KNX
- Voltage 21 .. 30V DC
- Current consumption EIB / KNX <10mA

Features Inputs
- Number of Pads: 4
- Inputs: 4 for clean contacts
- Maximum cable length: 10m = twisted

Outputs
– Number: 5 white LEDs
Connection
– EIB / KNX bus connecting terminal 2 of 0.8 mmo
– 2 4-way terminals for connection of 4 inputs with cables up to 0,2 mm²
Dimensions
– Dimensions: 110 mm x 110 mm

HOMEPAD KNX 8 CH + THERMOSTAT - BASE

The KNX HomePad PB80AxxKNX is available in 3 colors (White, Silver & Anthracite), the Eelecta's range is characterized by a central cross that can be personalized with different finishes and multiform cover silk screen printing. The HomePad has 5 state signaling or night mode Leds, can be installed on 2 or 3 module boxes,. The pressure of Pads can be long or short and can command sequences. The HomePad has 8 channels and thermostat on board to manage ON/OFF actuators for conditioning and heating, electric valves zone, 2/4 pipe fancoil controlling up 3 speed.

Order Code

HomePad KNX 8 CH + Thermostat - Base	**PB80AxxKNX**

Order codes are referred to colour palette and has to be completed with functional codes (ex. PB80A11KNX).

Technical Features

Supply
– Through the wire EIB / KNX
– Voltage 21 .. 30V DC
– Current consumption EIB / KNX <10mA
Features Inputs
– Number of Pads: 8
Outputs
– Number: 5 white LEDs
Connection
– EIB / KNX bus connecting terminal 2 of 0.8 mmo
Dimensions
– Dimensions: 110 mm x 110 mm

HOMEPAD KNX 8 CH + 4 IN - BASE

The KNX HomePad PB80BxxKNX is available in 3 colors (White, Chromo & Black), the Eelecta's range is characterized by a central cross that can be personalized with different finishes and multiform cover silk screen printing. The HomePad has 5 state signaling or night mode Leds, can be installed on 2 or 3 module boxes,. The pressure of Pads can be long or short and can command sequences. This HomePad has 8 channels and 4 free inputs are available to interface traditional switches from the same range or other conventional switches. (PB40AxxCON)

Order Code

HomePad KNX 8 CH + 4 IN - Base	**PB80BxxKNX**

Order codes are referred to colour palette and has to be completed with functional codes (ex. PB80B11KNX))

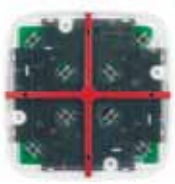
Technical Features

Supply
– Through the wire EIB / KNX
– Voltage 21 .. 30V DC
– Current consumption EIB / KNX <10mA
Features Inputs:
– Number of Pads: 8
– Inputs: 4 for clean contacts
– Maximum cable length: 10m = twisted
Outputs
– Number: 5 white LEDs
Connection
– EIB / KNX bus connecting terminal 2 of 0.8 mm²
– 2 4-way terminals for connection of 4 inputs with cables up to 0,2 mm²
Dimensions
– Dimensions: 110 mm x 110 mm

HOMEPADS BASE

White with White Cross 11

White with Black Cross 15



White with Red Cross 14

Chromo with White Cross 21

Chromo with Black Cross 25

Chromo with Red Cross 24

Black with White Cross 31

Black with Black Cross 35

Black with Red Cross 34

COMPLETE HOMEPADS AVAILABLE ON ALL FUNCTIONAL MODELS

Ceramic White - Red Cross 1D-WH

Ceramic White - Black Cross 1A-WH

Ceramic White - White Cross 1A-WH

Ivory - Black Cross 1C-OY

Black Weave - Red Cross 3D-BW

Black Weave - Black Cross 3C-BW

Black Matte - Red Cross 3D - BL

Black Matte - Black Cross 3C - BL

Bronze - Black Cross 3C - BR

Gold - Black Cross 3C - GO

Chromo - Red Cross 2D - CR

Chromo - Black Cross 2C - CR

Examples of free composition - Available for all the models

ARTWORK: ELIO MARIANI

Artwork 001 - Elio Mariani, detail from masterpiece “Figura stracciata“
3D-M1

Artwork 002 - Elio Mariani, detail from masterpiece “Enigma“
3C-M2

Artwork 003 - Elio Mariani, detail from masterpiece “Ballerina“
1C-M3

Artwork 004 - Elio Mariani, detail from masterpiece “La Bouche“
1C-M4

Order codes are referred to artworks of Elio Mariani on cover pad and has to be completed with functional codes.
(ex. PB40B3DKNX -M1)

LINEAR COVER

White Ceramic
COAW

Ivory
COAO

Black Weave
COABW

Black Matte
COAA

Bronze
COABR

Gold
COAG

Chromo
COAS

WAVE COVER

White Ceramic
COBW

Ivory
COBO

Black Weave
COBBW

Black Matte
COBA

Bronze
COBBR

Gold
COBG

Chromo
COBS

3,5” TOUCH PANEL KNX + THERMOSTAT

”The Eelecta touch panel: powerful control in a distinctive shape. With a coulured display, dimming, status, values, lighting, shutters and timers are controlled and password protected when needed. Using the embedded temperature sensor, chrono or fancoil controlling functions are managed. DMX coloured Led or lights are controlled with the optional DMX gateway, and load control with automatic cut off of loads is performed with optional power meter. Based on Linux® OS and ETS programmable, the 3,5” touch panel is equipped with a Led indicator and an buzzer for alarm functions.Available in nine different colours.

Order Codes

Eelecta 3.5” coloured KNX Touch Panel Ceramic White	VS00E10KNX
Eelecta 3,5” coloured KNX Touch Panel Ivory	VS00E11KNX
Eelecta 3.5” coloured KNX Touch Panel Chromo	VS00E20KNX
Eelecta 3.5” coloured KNX Touch Panel Chromo with Black Frame	VS00E21KNX
Eelecta 3.5” coloured KNX Touch Panel Black Matte	VS00E30KNX
Eelecta 3.5” coloured KNX Touch Panel Black Matte with Chromo Frame	VS00E31KNX
Eelecta 3.5” coloured KNX Touch Panel Black Weave	VS00E32KNX
Eelecta 3.5” coloured KNX Touch Panel Gold	VS00E40KNX
Eelecta 3.5” coloured KNX Touch Panel Bronze	VS00E50KNX

Technical Features

- 3.5”- TFT color display with 320xRGBx240 (256K colors) with Touch Screen.
- Processor 200MHz 32-bit ARM
- Linux OS
- Adjustable Backlight
- Buzzer
- Programmable with ETS
- 6 display pages, each of them with 8 control elements
- Each element of control can handle up to 4 KNX items
- Wide range of control elements - buttons / sliders / etc ..., with management objects 1-bit, 1 byte, 2 bytes…
- Elements-control for shutters, blinds, clock, dimmer, timer ..
- Management page for additional alarm inputs bus.
- Each page or item can be protected by a password.
- Various user interfaces, and layout options are available
- Customization of the product available on request.

Elements EIB / KNX
- Up to 196 communication objects

System Objects:
- Time / Date
- Brightness
- Temperature
- Alarm

Touch Panel Power Supply

CODE	DIN	SUPPLY	OUTPUT
PS00A11ACC	1,5 Mod.	230 VAC	12 VDC 15W
PS00A12ACC	4 Mod.	230 VAC	12 VDC 30W

TOUCH PANEL RANGE COLOURS

Ceramic White
VS00E10KNX

Ivory
VS00E11KNX

Black Weave
VS00E32KNX

Black Matte
VS00E30KNX

Black Matte - Chromo Frame VS00E31KNX

Bronze
VS00E50KNX

Gold
VS00E40KNX

Chromo
VS00E20KNX

Chromo - Black Frame VS00E21KNX

Synchronicity

Synchronise events - Synchronise colours

Synchronicity is a range of products working on KNX standard, dedicated to hotel and facility management.

All the range is for both 2 modules round and squared inwall boxes or for 3 modules boxes.

The solution is integrated with eSuite software management tool and products for temperature and HVAC control, lighting and load management (input and output modules, digital/analog mixed modules, dimmers and shutters modules), visualization and control (touch panels, PDA), communication (gateways vs other protocols).

Design: Paolo Haigh Castiglioni

Everything on KNX® protocol

Since our everyday living requires energy saving and cost control

Architects, designers and planners, follow our conception of home evolution and building automation.
Environmental needs are changing the standards of project design, with performing and challenging goals that require efforts to deliver to your clients long lasting economy and comfort values.
Following this effort, we have developed multifunctional applications starting from KNX technology: an open standard, programmed from a unique software tool, able to join independent systems in an interworking logic.
Used by many customers worldwide, our solutions combine aesthetic design, high performances and friendly usability for end users and professionals.

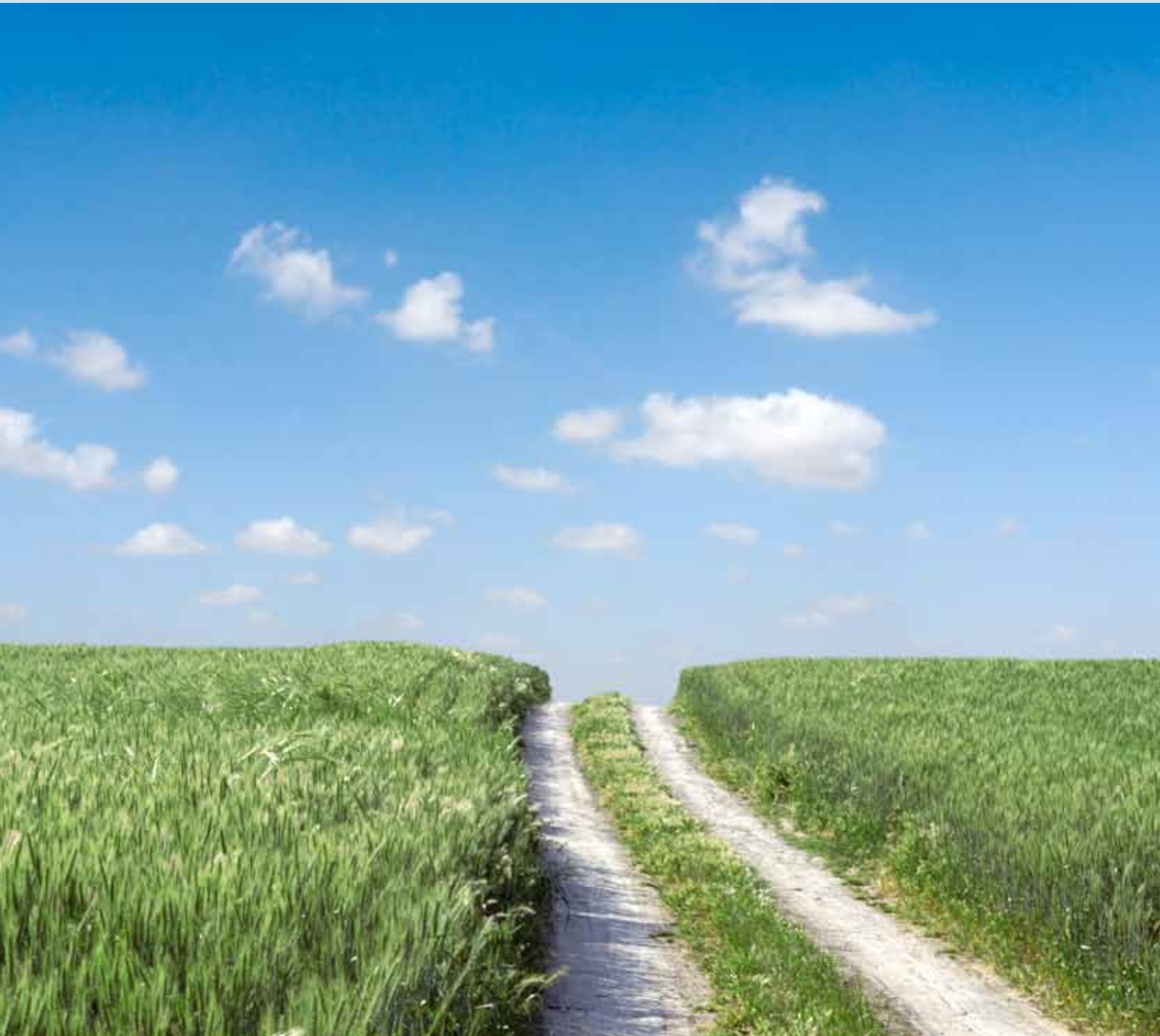
- Building Automation
- Hotel Management
- Home Evolution

Highlights of KNX solution

- A global standard
- Great flexibility thanks to distributed control and intelligence
- One only configuration software
- A single technology for installers and planners
- Easy Maintenance
- Security through the use of low-voltage power supplies
- Open to various communication medias

Since we want to live in an homy and environmental world

- Single or multiple lighting control
- Heating and air conditioning
- Blind and shutters control
- User dependent management of areas and functions
- Temporized and advanced scenarios
- Access Control
- Audio/Video system integration
- Alarms and Video Surveillance
- Intercom Audio and Audio/Video system



Our Hotel Solution

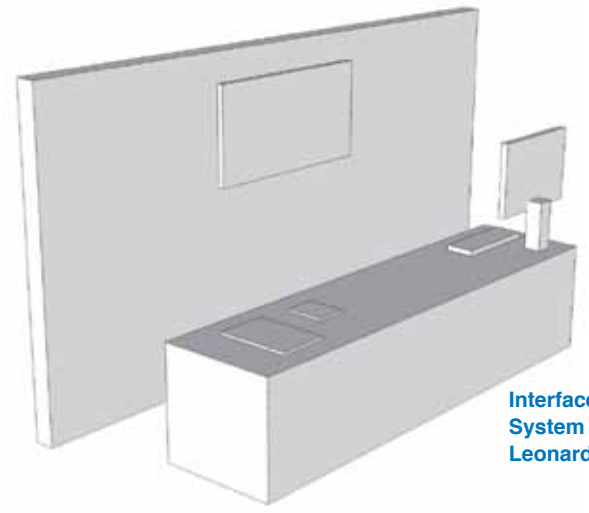
Eelectron has conceived the hotel as an integrated system where access control and room management is connected with common areas and temperature control and with interworking subsystems through hardware and software interfaces.

Reception

HVAC
BMS

Mitsubishi
Daikin
Toshiba
Sanyo
Tac
Siemens
ecc.

Gateway for bidirectional communication



Interface to management System (Micros Fidelio, Leonardo, ecc)

Transponder Card
Transponder Keyholder

Encoder

eSuite software

IP Interface

Power Supply

COMMON AREAS

Conference Room

Touch Panel KNX

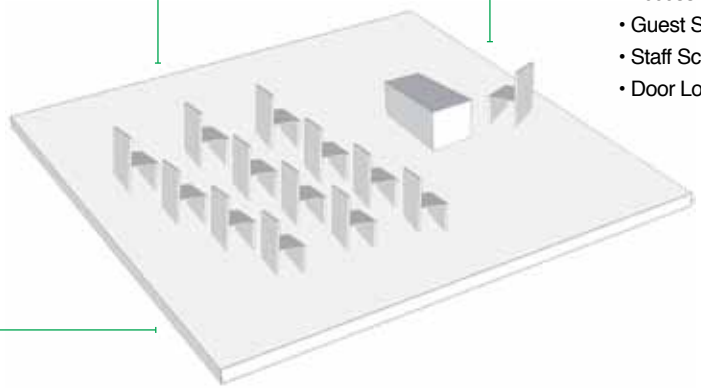
- Scenarios
- Timers
- Air-conditioning Management
- Shutters Management

Thermostat

- Temperature control

4IN/4OUT

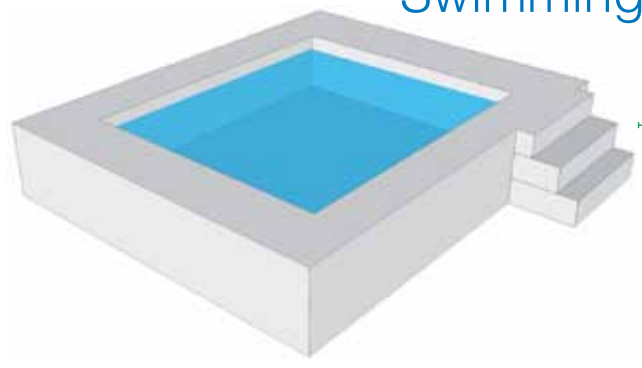
- Load control
- Service Call
- Lighting Management



Transponder Reader

- Access Control
- Guest Scenario
- Staff Scenario
- Door Lock control

Swimming Pool



eSuite software

- Water Temperature Control
- Water quality monitoring
- External lighting management
- Timers

External Transponder Reader

- Access Control
- Scenarios

ADMINISTRATION ROOMS

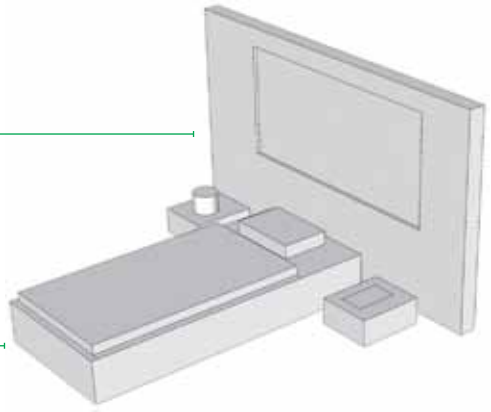
Room 01

Transponder Holder

- Bathroom Alarm
- Do Not Disturb
- Light ON/OFF
- Charge ON/OFF

Transponder Reader

- Door Contact
- Room charge status
- Door Lock control
- Courtesy Light



Thermostat

- Fan coil ON/OFF
- Window Contact

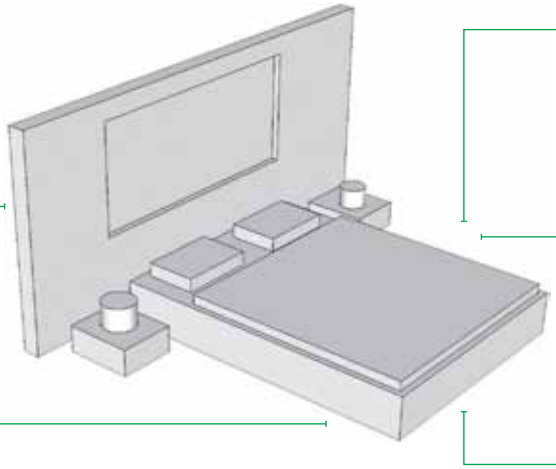
Room 02

Transponder Hold

- Bathroom Alarm
- Reset Alarm
- Light ON/OFF
- Charge ON/OFF

Transponder Reader

- Door Contact
- Room charge status
- Door Lock control
- Courtesy Light



Thermostat

- Tv Socket Control
- Window contact

4IN/4OUT Universal

- Minibar control
- Room light
- 3 speed Fan coil

4IN/4OUT LED

- Do Not Disturb
- Room cleaning request
- Service Call

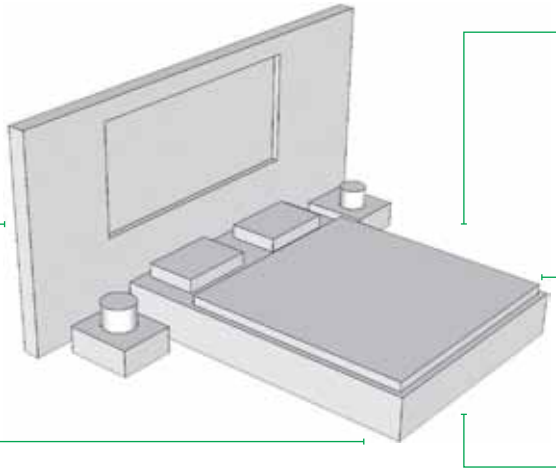
Suite

Transponder Holder

- Bathroom Alarm
- Reset Alarm
- Light ON/OFF
- Charge ON/OFF

Transponder Reader

- Door Contact
- Room charge status
- Door Lock control
- Courtesy Light



Touch Panel KNX

- Scenarios
- Service Call
- Do Not Disturb
- Cleaning Room Request

Thermostat

- Room Light ON/OFF
- Window Contact

8IN/8OUT

- Lights
- Minibar contact
- Shutters management
- 3 Speed Fan coil
- 2/4 Pipes system
- Hot/Cold Valves
- TV Socket control

THERMOREGOLATION

THERMOSTAT 1 IN - 1 OUT

The TM11AxxKNX thermostat is an EIB / KNX device for temperature controlling applications in Home & Building Automation, and is characterized by the possibility of being mounted on inwall boxes of 2 or 3 modules, rectangular or round. It is available in a range of colours for plastic housing; glass finishes can be ordered separately, which allows you to match the thermostat to all types of environments. The thermostat has large LCD for displaying the current temperature or the setpoint, fan speed, summer / winter mode and the 4 operating status. The unit is equipped with aclean contact input which can be used for a window sensor or other devices, and an output relay to control the speed 1 of the fan coil or even a zone valve. The thermostat can also be configured for used in combination with an ON / OFF output module to control the three fan coil speeds. Control elements available to the user include two buttons for increasing or decreasing the setpoint temperature (current setting), and two buttons for increasing or decreasing the fan speed, or stopping the fan all together.

Order codes and Thermostat available colours

Thermostat1 IN - 1 OUT - Light gray	**TM11A01KNX**
Thermostat 1 IN - 1 OUT - Anthracite	**TM11A11KNX**
Thermostat 1 IN - 1 OUT - White	**TM11A21KNX**

Technical Features

Dimensions
- Dimensions: (H x W x D) 78 x 110 x 39,8 mm

Mounting
- Mounting: inwall mounting on squared or round boxes

Connection
- EIB / KNX bus connecting terminal max 0.8 mm²
- Input screw clamp, conductor section max. 1,5 mm²
- Output relay screw clamp, conductor section max. 1,5 mm²

Supply
- From bus KNX 21..30 Vcc SELV

Features Inputs:
- Number: 1 ON/OFF clear contact
- Max length of connecting 10mt twisted cables

Output relay specification
- Capacity of the relay contact 48 Vac, 1A AC1

TEMPERATURE PROBE 1 IN - 1 OUT

The TM11BxxKNX temperature probe is an EIB / KNX. It can be fitted in rectangular or round embedded boxes with 2 or 3 modules. The plastic housing is available in a range of different colours, and glass finishes can be ordered separately, allowing you to match the temperature probe with any type of design. A large LCD display on the temperature probe displays the current temperature and setpoint, fan speeds, heating mode / cooling mode, window and CO2 status. The device has a physical clean contact input and an output relay for general use. Control elements available to the user are two buttons to increase and decrease the setpoint temperature, a button for adjusting the fan coil fan speed, and a button for manually changing the status (comfort, standby). By pressing the first two-button simultaneously, you can change settings related to the CO2 parameter as well. By pressin the 3rd and 4th button simultaneaosly the device send 1 bit command.

Order code and Temperature Probe available Colours

Temperature Probe 1 IN - 1 OUT Light gray	**TM11B01KNX**
Temperature Probe 1 IN - 1 OUT Anthracite	**TM11B11KNX**
Temperature Probe 1 IN - 1 OUT White	**TM11B21KNX**

Technical Features

Dimensions
- Dimensions: (H x W x D) 78 x 110 x 39,8 mm

Mounting
- Mounting: inwall mounting on squared or round boxes

Connection
- EIB / KNX bus connecting terminal max 0.8 mm²
- Input screw clamp, conductor section max. 1,5 mm²
- Output relay screw clamp, conductor section max. 1,5 mm²

Supply
- From bus KNX 21..30 Vcc SELV

Input specification
- Number: 1 ON/OFF clean contact
- Max length of connecting 10mt twisted cables
- Scanning voltage Un = 12V
- Scanning power In with locked contact = 1mA for channel
- Output relay specification
- Capacity of the relay contact 48 Vac, 1A AC1

SUPPORT GLASS PLATE

Glass Plate with support for TM11A series.

Order Codes and available Colours

Silver	VTxxA01KNX
Black	VTxxA11KNX
White	VTxxA21KNX

Note: To be completed xx with the code glass colours

THERMOSTAT 1 IN - 1 OUT WITH PLEXIGLASS PLATE

This version of the product TM11A completed with plexiglass plate in the same colour of the device. Same features of the version with glass plate.

Order Codes and available Colours

Thermostat 1 IN - 1 OUT with plexiglass plate - Silver	TM11A09KNX
Thermostat 1 IN - 1 OUT with plexiglass plate - Black	TM11A19KNX
Thermostat 1 IN - 1 OUT with plexiglass plate - White	TM11A29KNX

TEMPERATURE PROBE 1 IN - 1 OUT WITH PLEXIGLASS PLATE

This version of the product TM11B completed with plexiglass plate in the same colour of the device. Same features of the version with glass plate.

Order Codes and available Colours

Temperature Probe 1 IN - 1 OUT with plexiglass plate - Silver	TM11B09KNX
Temperature Probe 1 IN - 1 OUT with plexiglass plate - Black	TM11B19KNX
Temperature Probe 1 IN - 1 OUT with plexiglass plate - White	TM11B29KNX

HOTEL SYSTEM & ACCESS CONTROL

TRANSPONDER READER 2 IN - 2 OUT

The Transponder Reader TR22AxxKNX is an EIB/KNX wall mounting device suitable to access control application.
This device can be used in any kind of building (Hotel, Hospital, Offices, Parking, etc..) where the access control application is required.
The device is equipped with two binary inputs (clear contacts) that can be used, for instance, to control the door status or other signals coming from external switches/contacts (i.e. windows, bathroom emergency alarms, etc..) . The transponder reader is equipped also with two output relays which can be used for general purposes, typically to open the door or turning on the courtesy light inside the room.
The product provides on the front side four LEDs in order to enlighten 4 icons to display the following states (e.g. in case of Hotel management):
- Access Allowed/Not Allowed
- SOS request
- Service Call (clean room, etc..)
- Client status (“Busy room” or “Do not Disturb”)

The LEDs and icons can be configured in association with other alarms or events. The transponder reader can reads cards or keys at a maximum distance of 30mm from the front side.

Order code and Reader available Colours

Transponder reader 2 IN - 2 OUT Light gray	TR22A01KNX
Transponder reader 2 IN - 2 OUT Anthracite	TR22A11KNX
Transponder reader 2 IN - 2 OUT White	TR22A21KNX

Technical Features

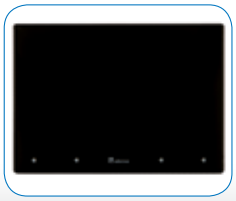
Dimensions
– Dimensions: (H x W. x D.) 78 x 110 x 37 mm
Mounting
– Mounting: inwall mounting on squared or round boxes
Connection
– EIB / KNX bus connecting terminal max 0.8 mm²
– Input and output screw clamps, conductor section max. 1,5 mm²
Supply
– From bus KNX 21..30 Vcc SELV
– Supplementary 12-24V AC/DC ± 10% 150mA Max
Control elements
– 1 red LED for ETS programming
– Frontal warning
– 1 LED : Access denied /allowed
– 3 LED : freely configurable

Input specification
- 2 type ON/OFF clean contacts
- Max lenght of connection cable10mt
- Ouput relay specification
- Number 2 with capacity of the contact relay: 24 VAC/DC 2 A AC1

Transformers for Access Control

CODE	DIN	SUPPLY	OUTPUT
PS00T10TRA	2 Mod.	230 VAC	12/24 VAC 10VA
PS00T24TRA	3 Mod.	230 VAC	12/24 VAC 24VA
PS00T40TRA	3 Mod.	230 VAC	12/24 VAC 40VA

SUPPORT GLASS PLATE



Glass Plate with support for TR22A series.

Order Codes and available Colours

Support Glass Plate - Silver	VTxxA02KNX
Support Glass Plate - Black	VTxxA12ACC
Support Glass Plate - White	VTxxA22ACC

Note: To be completed xx with the code glass colours

TRANSPONDER READER 2 IN - 2 OUT WITH PLEXIGLASS PLATE

The version of Transponder Reader TR22A complete with plexiglass plate in the same colour of the device. Same features of the version with glass plate.

Order Codes and available Colours

Transponder reader 2 IN - 2 OUT with Plexiglass Plate - Silver	TR22A09KNX
Transponder reader 2 IN - 2 OUT with Plexiglass Plate - Black	TR22A19KNX
Transponder reader 2 IN - 2 OUT with Plexiglass Plate - White	TR22A29KNX

TRANSPONDER READER WITH BELL 2 IN - 2 OUT

The Transponder Reader TR32Ax9KNX is an EIB/KNX wall mounting device suitable to access control application.
This device can be used in any kind of building (Hotel, Hospital, Offices, Parking, etc..) where the access control application is required.
The device is equipped with two binary inputs (clear contacts) that can be used, for instance, to control the door status or other signals coming from external switches/contacts (i.e. windows, bathroom emergency alarms, etc..) and with one frontal button freely configurable by ETS. The transponder reader is equipped also with two output relays which can be used for general purposes, typically to open the door or turning on the courtesy light inside the room.
The product provides on the front side four LEDs in order to enlighten 4 icons to display the following states (e.g. in case of Hotel management):
- Access Allowed/Not Allowed
- SOS request
- Service Call (clean room, etc..)
- Client status ("Busy room" or "Do not Disturb")

The LEDs and icons can be configured in association with other alarms or events. The transponder reader can reads cards or keys at a maximum distance of 30mm from the front side.

Order Codes and available Colours

Transponder reader with bell 2 IN - 2 OUT - Silver	TR32A09KNX
Transponder reader with bell 2 IN - 2 OUT - Black	TR32A19KNX
Transponder reader with bell 2 IN - 2 OUT - White	TR32A29KNX

Technical Features

Dimensions:
- Dimensions: (H x W. X depth.) 78 x 110 x 37 mm

Mounting
- Mounting: inwall mounting on squared or round boxes

Connection
- EIB / KNX bus connecting terminal max 0.8 mm²
- Input and output screw terminals, wire section max. 1.5 mm²

Supply:
- KNX bus 21 .. 30 VDC SELV
- Additional 12-24V AC / DC ± 10%, 150mA max

Features
- 2 binary inputs for clear contacts
- Max length 10m cables
- 2 relay, contact rating 24 VAC / DC, 2 A AC1

Control elements
- 1 red LED for ETS programming
- Frontal warning
- 1 LED : Access denied /allowed
- 3 LED : freely configurable

Input specification
- Scanning power In with locked contact = 1mA per channel
- Ouput relay specification
- Number 2 with capacity of the contact relay: 24Vac 2 A AC1

Control elements
- 1 button for ETS programming

Transformers for Access Control

CODE	DIN	SUPPLY	OUTPUT
PS00T10TRA	2 Mod.	230 VAC	12/24 VAC 10VA
PS00T24TRA	3 Mod.	230 VAC	12/24 VAC 24VA
PS00T40TRA	3 Mod.	230 VAC	12/24 VAC 40VA

EXTERNAL TRANSPONDER READER 2 IN - 2 OUT

The Transponder Reader TR22AxxKNX is an EIB/KNX wall mounting device suitable to access control application.
This device can be used in any kind of building (Hotel, Hospital, Offices, Parking, etc..) where the access control application is required. The device is equipped with two binary inputs (clear contacts) that can be used, for instance, to control the door status or other signals coming from external switches/contacts (i.e. windows, bathroom emergency alarms, etc..) . The transponder reader is equipped also with two output relays which can be used for general purposes, typically to open the door or turning on the courtesy light inside the room.
The product provides on the front side four LEDs in order to enlighten 4 icons to display the following states (e.g. in case of Hotel management):
- Access Allowed/Not Allowed
- SOS request
- Service Call (clean room, etc..)
- Client status (“Busy room” or “Do not Disturb”)

The LEDs and icons can be configured in association with other alarms or events. The transponder reader can reads cards or keys at a maximum distance of 30mm from the front side. IP Protection 42.

Order Code

External Transponder Reader 2 IN - 2 OUT	TR22A11KNX-EXT

Technical Features

Dimensions
- Dimensions: (H x W x D) 78 x 110 x 37 mm

Mounting
- Mounting: inwall mounting on squared or round boxes

Connection
- EIB / KNX bus connecting terminal max 0.8 mm²
- Input and output screw clamps, conductor section max. 1,5 mm²

Supply
- From bus KNX 21..30 Vcc SELV
- Supplementary 12-24V AC/DC ± 10% 150mA Max

Control elements
- 1 red LED for ETS programming
- Frontal warning
- 1 LED : Access denied /allowed
- 3 LED : freely configurable

Input specification
- 2 type ON/OFF clear contacts
- Max lenght of connection cable10mt
- Scanning voltage Un = 12V internally generated
- Scanning power In with locked contact = 1mA per channel
- Ouput relay specification
- Number 2 with capacity of the contact relay: 24Vac 2 A AC1

Control elements
- 1 button for ETS programming

Transformers for Access Control

CODE	DIN	SUPPLY	OUTPUT
PS00T10TRA	2 Mod.	230 VAC	12/24 VAC 10VA
PS00T24TRA	3 Mod.	230 VAC	12/24 VAC 24VA
PS00T40TRA	3 Mod.	230 VAC	12/24 VAC 40VA

PLEXIGLASS PLATE FOR EXTERNAL TRANSPONDER READER 2 IN - 2 OUT

Plexiglass Plate for the code TR22A11KNX-EXT

Order Codes and available Colours

Plexiglass plate for External Transponder Reader 2IN - 2 OUT - Black	PX15A14ACC
Plexiglass plate for External Transponder Reader 2IN - 2 OUT - White	PX10A24ACC

TRANSPONDER HOLDER 2 IN - 2 OUT

The Transponder Holder TH22AxxKNX is an EIB/KNX wall mounting device suitable to access control application. It can be used for detecting and monitoring the presence of customers or service staff in a room. The device is equipped with two binary inputs (clear contacts) that can be used, for instance, to control the door status or other signals coming from external switches/contacts (i.e. windows, bathroom emergency alarms, etc..) .
On the front of the transponder holder there is a blue light that is useful to help the guest to insert card in the device. Removing the card ,after a programmable time, all the room services are switched off to preserve energy.

Order Codes and pocket Colours

Transponder Holder 2 IN - 2 OUT - Light Gray	**TH22A01KNX**
Transponder Holder 2 IN - 2 OUT - Anthracite	**TH22A11KNX**
Transponder Holder 2 IN - 2 OUT - White	**TH22A21KNX**

Technical Features

Dimensions
- Dimensions: (H x W. x D.) 78 x 110 x 37 mm

Mounting
- Mounting: inwall mounting on squared or round boxes

Connection
- EIB / KNX bus connecting terminal max 0.8 mm²
- Input and output screw clamps, conductor section max. 1,5 mm²

Supply
- From bus KNX 21..30 Vcc SELV
- Supplementary 12-24V AC/DC ± 10% , max 150mA

Input specification
- 2 type ON/OFF clean contacts
- Max lenght of connection cable10mt

Ouput relay specification
- Number 2 with capacity of the contact relay: 24 VAC/DC 2 A AC1

Control elements
- 1 blue guiding light
- 1 button for ETS programming

Transformers for Access Control

CODE	DIN	SUPPLY	OUTPUT
PS00T10TRA	2 Mod.	230 VAC	12/24 VAC 10VA
PS00T24TRA	3 Mod.	230 VAC	12/24 VAC 24VA
PS00T40TRA	3 Mod.	230 VAC	12/24 VAC 40VA

SUPPORT GLASS PLATE

Glass Plate with support for TH22A series.

Order Codes and available Colours

Silver	**VTxxA03KNX**
Black	**VTxxA13KNX**
White	**VTxxA23KNX**

Note: To be completed xx with the code glass colours

TRANSPONDER HOLDER 2 IN - 2 OUT WITH PLEXIGLASS PLATE

This version of the product TH22A completed with plexiglass plate in the same colour of the device. Same features of the version with glass plate.

Order Codes and available Colours

Transponder Holder 2 IN - 2 OUT with plexiglass plate - Silver	**TH22A09KNX**
Transponder Holder 2 IN - 2 OUT with plexiglass plate - Black	**TH22A19KNX**
Transponder Holder 2 IN - 2 OUT with plexiglass plate - White	**TH22A29KNX**

PLEXIGLASS COLOUR CHARTS

Transponder Reader white TR22A29KNX

Transponder Holder white TH22A29KNX

Thermostat white TM11A29KNX

Transponder Reader silver TR22A09KNX

Transponder Holder silver TH22A09KNX

Thermostat silver TM11A09KNX

Transponder Reader black TR22A19KNX

Transponder Holder black TH22A19KNX

Thermostat black TM11A19KNX

Temperature Probe white TM11B29KNX

Temperature Probe silver TM11B09KNX

Temperature Probe black TM11B19KNX

GLASS COLOUR CHARTS

Glass VT10 Signal White

Glass VT29 Green Water

Glass VT12 Oyster White

Glass VT28 Light Blue

Glass VT17 Ruby Red

Glass VT22 Light Silver

Glass VT27 Violet

Glass VT15 Black

Glass VT23 Iron

Glass VT24 Gold

TRANSPONDER ENCODER

The card encoder is a device that writes / reads RFID tag. The device is fitted in a table container with 3 modules, equipped with a USB interface that also provide the power supply. The device is provided with a driver to allow writing and reading functionality.

Order Code

Transponder Encoder	**TE00A01KNX**

Technical Features

Dimensions
– H x W x D: 87 x 142 x 107 mm
Mounting
– –– placed on desk
Connection
– USB type A connector
Power
– From the PC's USB port: 5V - 150mA
Communication
– USB 1.1
Warnings
– Blue light showing running process

eSuite

Software dedicated to supervision of **KNX** installation, hotel management and access control, alarms and utilities.
Modular, Flexible, Evolved.

ESUITE SOFTWARE

ESuite software is dedicated to the hotel management, to oversee KNX and environments for access control and alarms. Management software and interfaced with other software. Client remote management via the Internet or Ethernet. The package is also available with an IP interface, USB or IP Router.

Order Codes

eSuite licences to be integrate with room/ zones	**SW00D01KNX**
eSuite package 5 rooms / zones (MAX 200 rooms / zones)	**SW00D02KNX**
eSuite additional client	**SW00D03KNX**
eSuite interface to management systems	**SW00D04KNX**

Technical Features

– -Number of rooms / common area unlimited according to installed license.
– Client workstation unlimited accordin to installed license
– Profiling privileges unlimited
– Using KNX functions of timing events available
Generation KNX groups of objects available
– Automatically import object available from ETS KNX
Automatically back up data available
– Use filters to search event logs available
– Export data into CSV files / XLS / DOC available
– Connection to the bus using Falcon library

TRANSPONDER CARDS AND KEY HOLDER

Transponder Cards and Key Holder for Synchronicity Range.

Order Codes

Transponder Cards Blank - 50 pcs	CD00A02TRC
Transponder Cards Blank - 250 pcs	CD00A03TRC
Transponder Keyholder - 50 pcs	CD00B02TRC

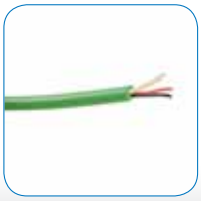
Technical Features

Dimensions and characteristics of the Card
- Complies with ISO 7810 (85.6 x 54 x 0.76 mm)
- Possibility of serigraphy on both sides (on request)
- Dual technology version (RFID and magnetic stripe on request)

Dimensions and characteristics of Key chains
- Dimensions and Material: ABS 38 x 34 x 6 mm
- Frequency: 125KHz-
- Operational temperature: -10 ° C to 50 ° C

ACCESSORIES

EIB / KNX BUS CABLE



It is used for installation in “smart” building applications. Guarantees perfect communication in accordance with specifications established by EIB / KNX, and is suitable for applications with fixed wiring inside channels and under plaster.

Order Codes

Double-bus cable 2x2x0, 8 coils 100mt	CV00A02KNX
Double-bus cable 2x2x0, 8 coils 500mt	CV05A02KNX
Double-bus cable 2x2x0, 8 coils 1000mt	CV10A02KNX
Single bus cable 1x2x0, 8 coils 100mt	CV00A01KNX
Single bus cable 1x2x0, 8 coils 500mt	CV05A01KNX
Single bus cable 1x2x0, 8 coils 1000mt	CV10A01KNX

Technical Features

Electrical characteristics
Inner conductor:
- Solid bare copper wire

Construction:
- 1x2x0,80 mm or 2x2x0,8 mm

Dielectric:
- Low Smoke Zero Halogen fire retardant compound (LSZHFRNC)

Colours:
- Red, Black or Red, Black, Yellow, White

Outer Jacket
- Low Smoke Zero Halogen fire retardant compound (LSZHFRNC)

Classified
- CEI 20-11 M1

According to:
- IEC 60332-1, IEC 61034-1, IEC 61034-2, IEC 60754-1,
- IEC 60754-2

Diameter
- 5,20 mm ± 0,20

Colour
- Green (RAL 6018)

3V LED INDICATOR

Packages of 20 or 60 pcs LED with Blue or White light 3V wired red / black.

Order Codes

3v LED indicator light blue wiring red-black - 20 pcs	**LD00A01ACC**
3v LED indicator light blue wiring red-black - 60 pcs	**LD00A02ACC**
3v LED indicator light white wired red-black -20 pcs	**LD00A11ACC**
3v LED indicator light white wired red-black -60 pcs	**LD00A12ACC**

Technical Features

Weight and Dimensions

- 3 mm x 4.3 mm (width and height) and 3.85 mm (radius)
- Current: 20 mA
- Reverse Voltage: 5 V
- Luminous Intensity: 4000 Min - Max 9000mcd

BUS CONNECTOR

BUS Connector Red / Black for EIB / KNX, with direct plug connection. They can be connected up to 4 pairs of wires to a KNX device can also be used as a branch terminal.

Order Codes

Wago connector Red / Black Box 10 pcs	**WG00A00ACC**
Wago connector Red / Black Box 100 pcs	**WG00A01ACC**
Wago connector Red / Black Box 500 pcs	**WG00A02ACC**

Technical Features

- Wire 22 to 18 AWG (0.6 - 1 mm)
- EN detected voltage 100V
- Rated current 6A
- Stripping length from 5 to 6 mm
- Weight 1.6 gr
- Dimensions alt. x width. x depth.: 11.5 x 10 x 10 mm

Details and functional specifications in this catalogue are subject to change without notice. The colors are indicative only. Despite checking that the contents of this document relating to hardware and software features of the product, we can not completely rule out the discrepancies. Eelectron is deemed exempt from any liability on the use of the information. Any necessary corrections will be included in the new versions of the manual. This catalogue can be freely downloaded from our website: www.eelectron.com.

THE KNX® STANDARD

The EIB / KNX technology standard is now the most widely used in the field of control for buildings with service and residential uses, and covers more than 10,000 devices produced by some 130 leading manufacturers in electronics / devices, and more than 12 million nodes installed worldwide.

KNX is approved by:

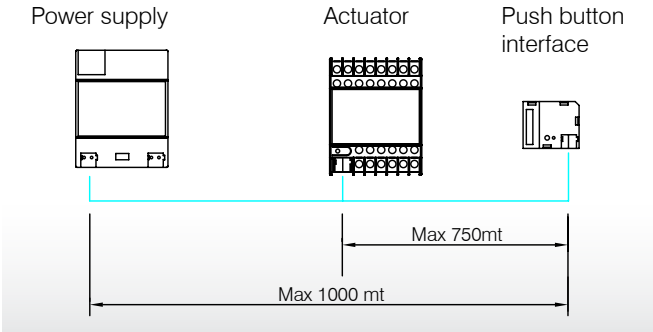
– European Standard (CENELEC EN 50090, CEN EN CEN 13321-1 and EN 1332-2 “KNXnet / IP”)
– International Standard (ISO / IEC 14543-3)
– Chinese Standard (GB / Z 20965)
– U.S. Standard (ANSI / ASHRAE 135)

For more information see the Konnex website at:
www.konnex.org

BUS LINE EXTENSION

The structure of a KNX installation comprises areas, lines and devices. Each line consists of a power supply that provides voltage (SELV 29V), and a maximum of 64 devices connected in any installation topology. More bus lines can communicate with each other through “Line / Area Couplers”. To achieve coupling between 15 lines, you need to create an Area composed of a total of 960 devices: this can be coupled to a maximum of 15 other Areas.

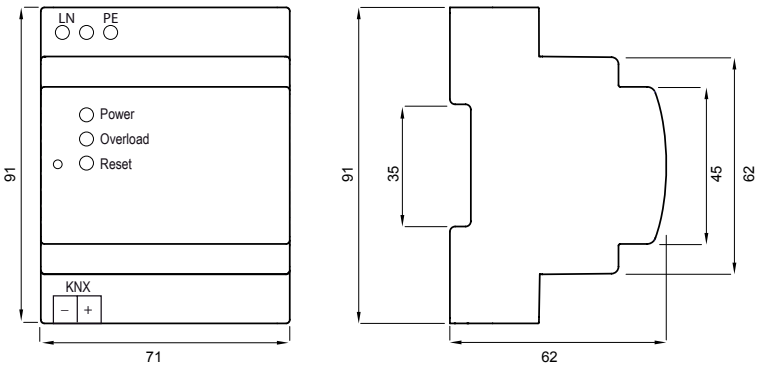
A bus line can have a maximum length of 1,000m (considered as the sum of all segments in the line), and the maximum distance between the adapter and the farthest device or between two devices is 750 m.



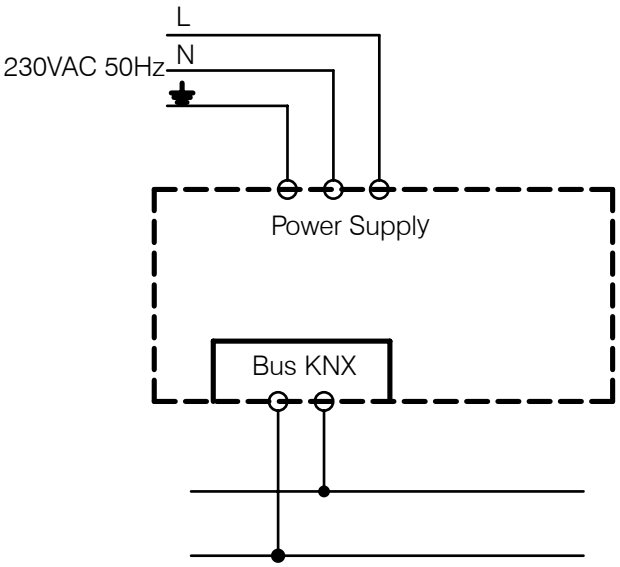
TECHNICAL CHARACTERISTICS OF THE SYSTEM

System Data	
Bus cable	
Cable type	2 x 2 x 0.8 double cable. A pair of conductors (red, black) for signal transmission and power. A pair of conductors (yellow, white) for additional applications (SELV). 1 x 2 x 0.8 single cable. A pair of conductors (red, black) for signal transmission and power.
Length of a line (conductor diameter: 0.8 mm)	max 1000m (including all derivations)
Distance between two bus devices	max 700 m
Distance between a bus and power (320 mA) with integrated coil	max 350 m
Bus appliances	
Number of Areas	15 max
Number of lines per Area	15 max
Number of bus devices per line	64 max
Topology	Spin, star, tree configurations
Power	
System voltage	29 V DC (safety voltage SELV)
Power Supply 160, 320 or 640 mA	
Power line in case of high demand for current	2 power supplies (max) at a minimum distance of 200 m
Transmission	
Transmission technique	Decentralized, event-driven, serial, symmetric
Speed	9600 bit/s

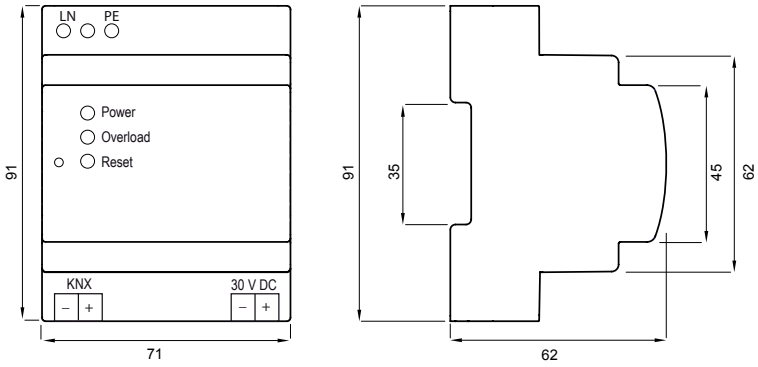
Power Supply 160 mA



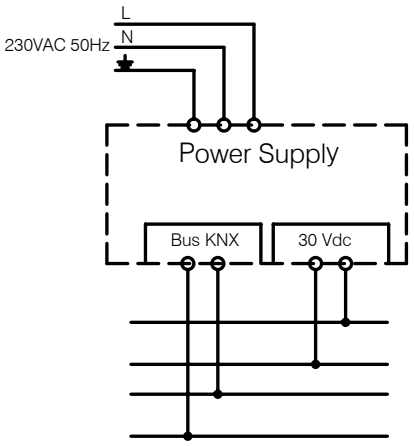
PS00B01KNX



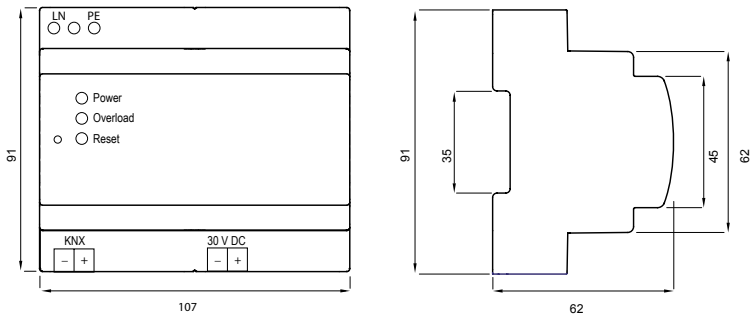
Power Supply 320 mA



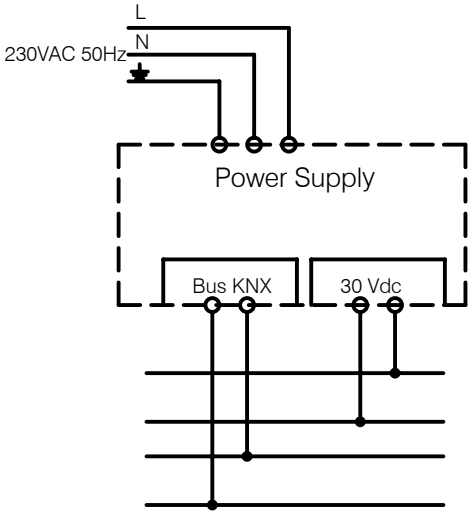
PS00B02KNX



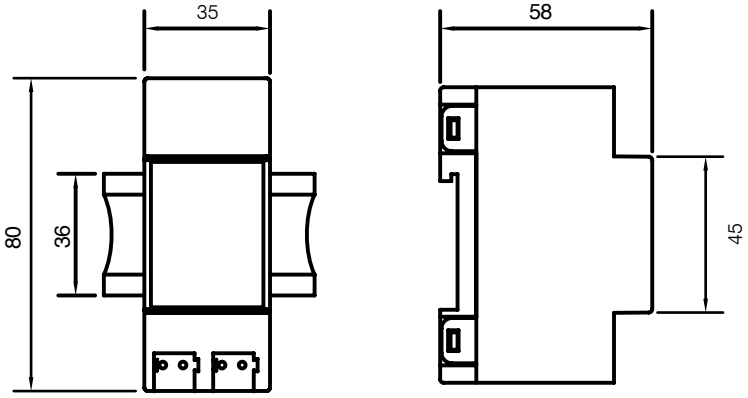
Power Supply 640 mA



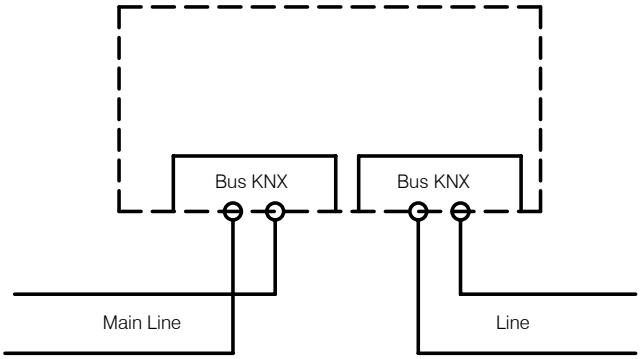
PS00B03KNX



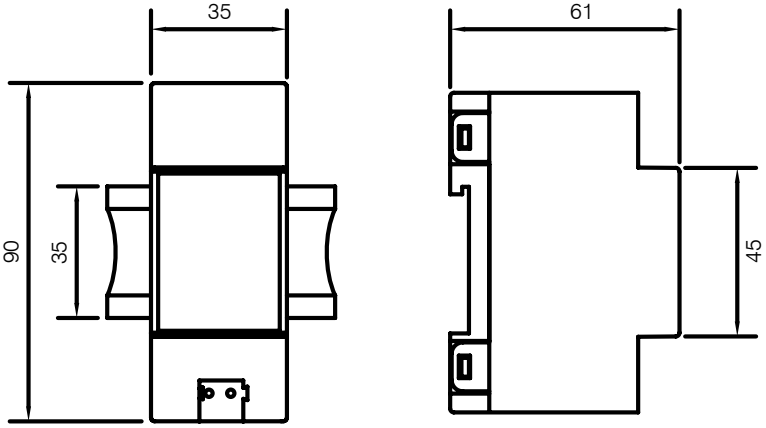
Bus Line Coupler KNX



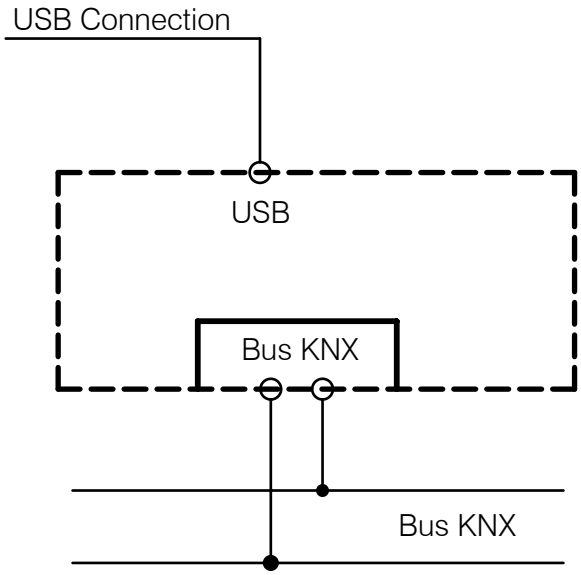
PS00B05KNX



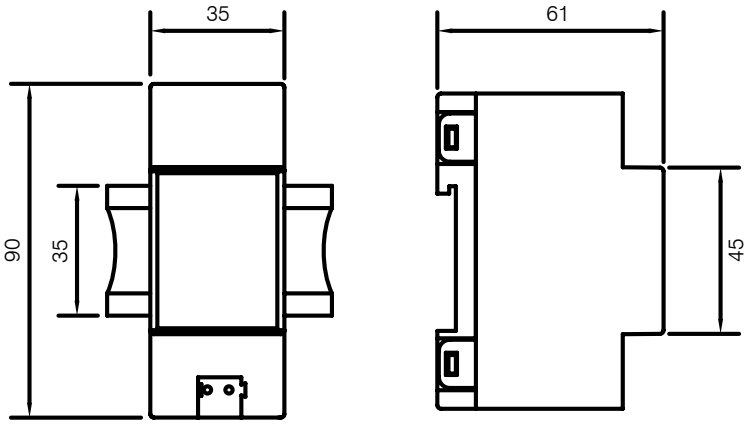
USB / KNX Interface



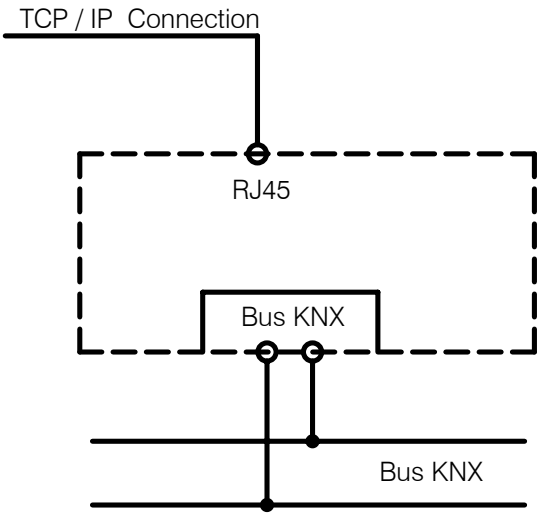
IN00A01USB



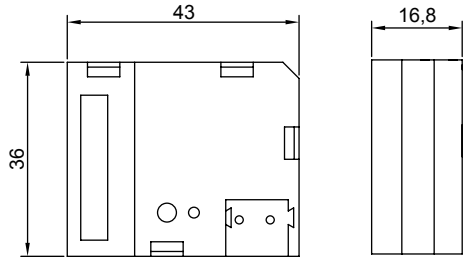
IP ROUTER / KNX Interface



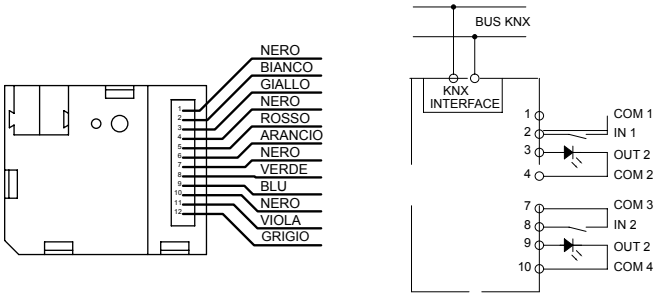
IN00A01RIP



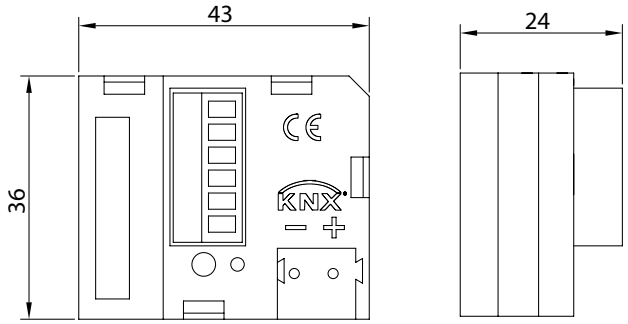
Push Button Interface 2 IN - 2 OUT LED
Push Button Interface 4 IN - 4 OUT LED



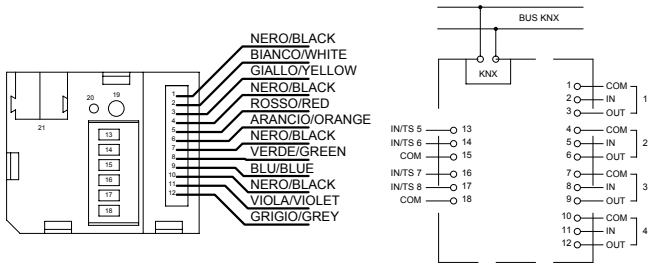
IO22C02KNX
IO44C02KNX



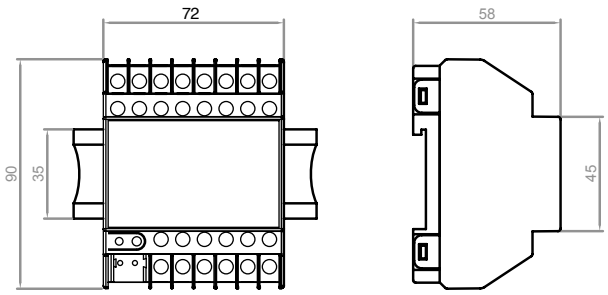
Inwall 8 Input/4 Led Output Module



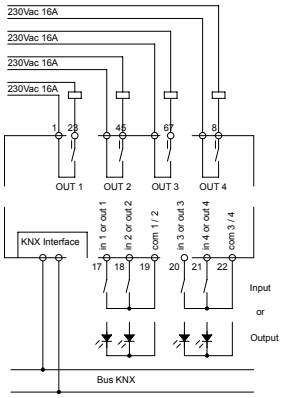
AD84A01KNX



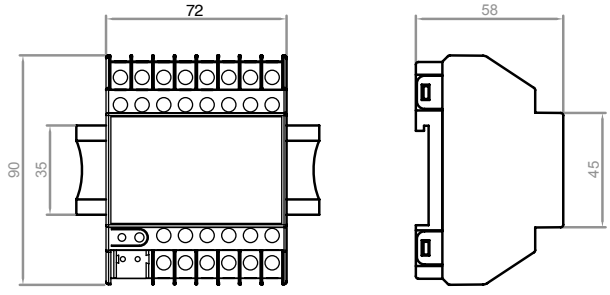
Universal 4 IN - 4 OUT
Universal 4 IN - 4 OUT C-Load



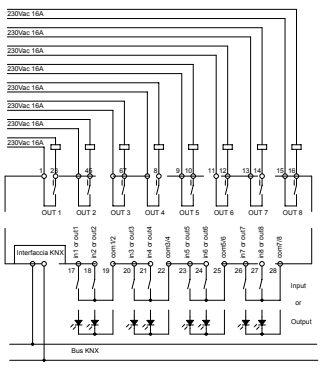
IO44B02KNX
IO44B02KNX-C



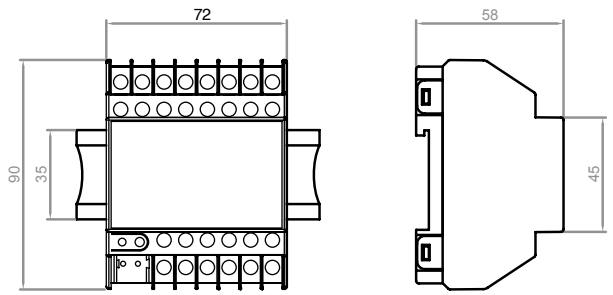
Universal 8 IN 8 OUT
Universal 8 IN 8 OUT C-Load
Multifunctional 8 IN - 8 OUT



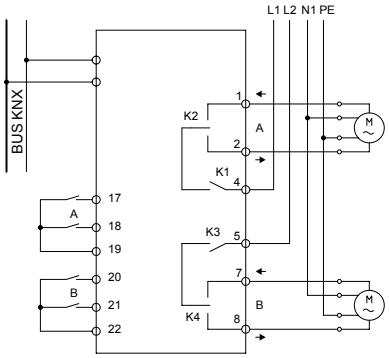
IO88B02KNX
IO88B02KNX-C
IO88E01KNX



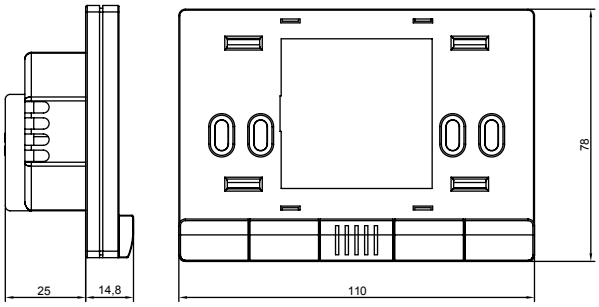
4 Input / 2 Shutter Output Module



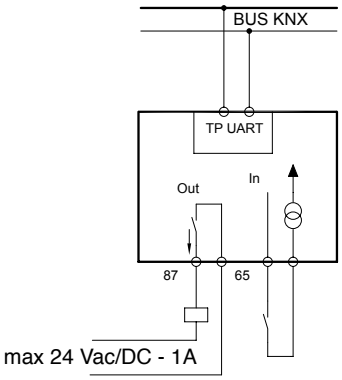
SH42A01KNX



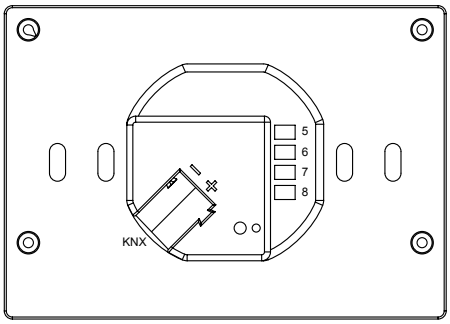
Thermostat - Temparature Probe



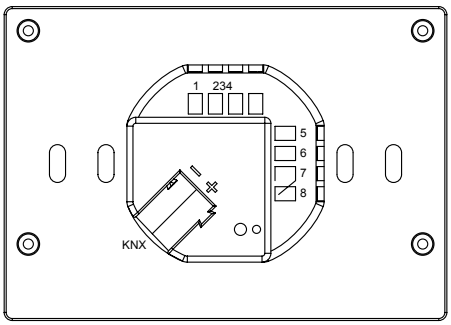
TM11A01KNX - TM11A11KNX - TM11A21KNX / TM11B01KNX - TM11B11KNX -TM11B21KNX



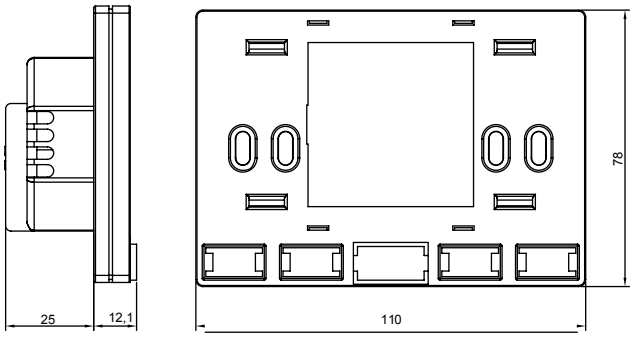
TM11A01KNX / TM11A11KNX / TM11A21KNX



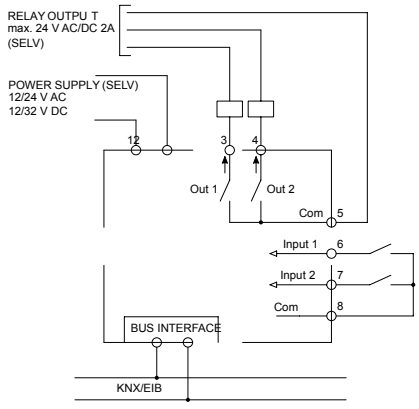
TH22A01KNX / TH22A11KNX / TH22A21KNX



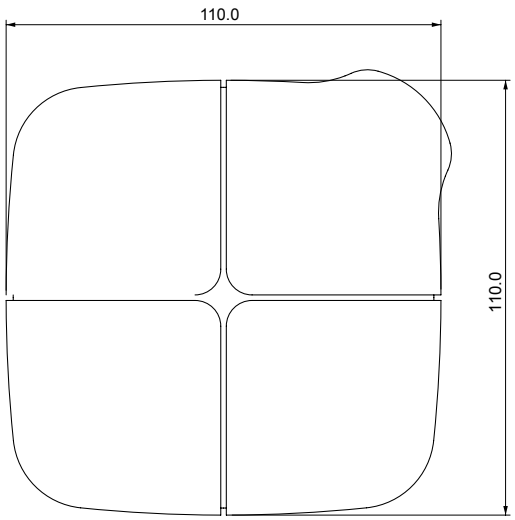
Transponder Reader - Transponder Holder

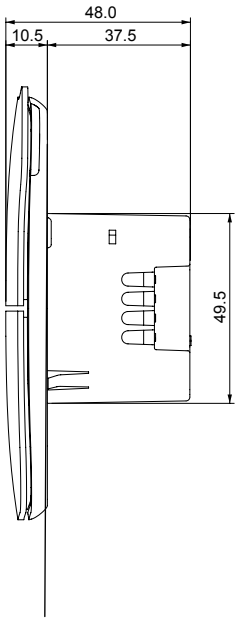


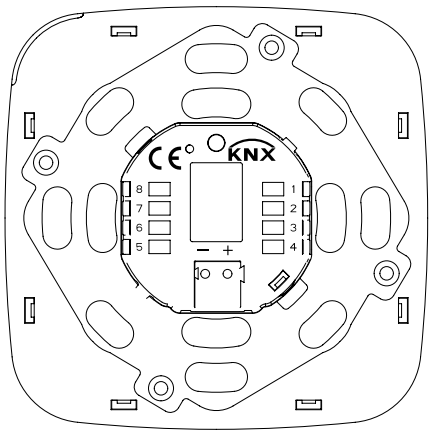
TR22A01KNX - TR22A11KNX - TR22A21KNX / TH22A01KNX - TH22A11KNX - TH22A21KNX



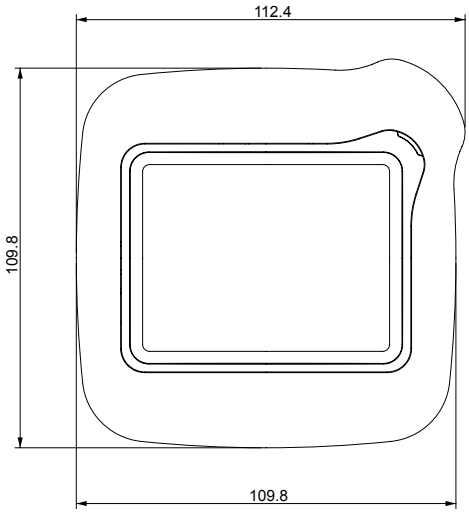
eelecta HomePad Dimensions

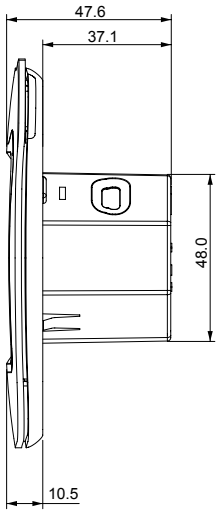


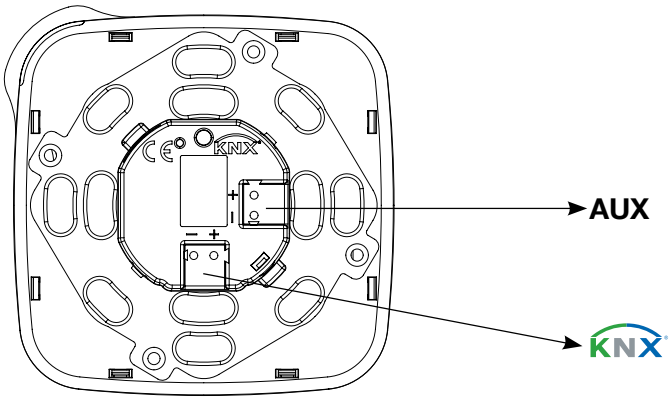




eelecta Touch Panel Dimensions







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