



**eelecta**  
**RESIDENTIAL**

Synchronicity  
**HOSPITALITY**

**KNX** Actuators  
**BUILDING**

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.



**Made in Italy**

# 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**



reddot design award  
winner 2012



## Stylish yourself

Eclectic, Creative... in line with your style

Eelecta is a design and architectural element shaped to leave a coloured and graphical sign in the space.

## Lighting control

Dimming, lighting sequences,  
management of scenarios using  
led technology



## Programmed setting of electrical functions

Scenarios - Absence, party, relax...  
Socket power control

## Differentiated temperature setting

With an integrated thermostat,  
detecting and regulating a desired  
temperature

## Audio/Video source selection

Channel, station, local volume and  
track selection

## Centralized management of valves and loads

Shutters, irrigation, external drives, gates



## Event based or occupancy based automation

A scenario or a given automation  
can be launched from an external  
device connected to the HomePad,  
as for example a traditional occupancy  
sensor

## “Hidden” Functions

To be activated with a long  
pressure lenght on the Pad

# Touch Panel 3'5 KNX



# HomePad-MiniPad



# Frames



1st function:  
every pad drives one or  
two functions

2nd function:  
diagonal pressure

3rd and 4th functions:  
with a long pressure,  
another function is  
activated

4 frontal leds associated  
to a single function



**HomePad and MiniPad are available with 4 or 8 channels (functions), with thermostat, 4 inputs interface options and circular functions.**

## How it works

Lateral programmable led for night mode or  
night light

Integrated thermostat

Until 4 external devices (standard  
switches, presence sensor, etc.)  
can be connected to the HomePad  
to activate smart functions



Direct KNX bus  
connection

## How to wire



# Big like this:

Eelecta is a design and architectural element shaped to leave a coloured and graphical sign in the space.

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

## Colour's Range

### Complete HomePads

available on all functional models



Order codes are referred to colour palette and has to be completed with functional codes.  
(es. PB40B**3D**KNX -**BW**)

### MiniPad

available on all functional models



Order codes are referred to colour palette and has to be completed with functional codes.  
(es. MB40B**3D**KNX -**BL**)

### Linear Cover



### Wave Cover



### HomePads



Order codes are referred to colour palette and has to be completed with functional codes.  
(es. PB40B**11**KNX)

### HomePad

Codici	Descrizione
PB40AxxCON	• HomePad 4 CH.
PB40BxxKNX	• HomePad KNX 4 CH.
PB40CxxKNX	• HomePad KNX 4 CH. 4 IN - TS
PB80AxxKNX	• HomePad KNX 8 CH. - TS
PB80BxxKNX	• HomePad KNX 8 CH. - 4 IN
PB80CxxKNX	• HomePad KNX 8 CH. - TS - Circular functions

### MiniPad

Codici	Descrizione
MB40BxxKNX	• MiniPad KNX 4 CH.
MB40CxxKNX	• MiniPad KNX 4 CH. 4 IN - TS
MB80AxxKNX	• MiniPad KNX 8 CH. - TS
MB80BxxKNX	• MiniPad KNX 8 CH. - 4 IN
MB80CxxKNX	• MiniPad KNX 8 CH. - TS - Circular functions

# 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.



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



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

# Customized Artwork

Through the site [www.eelecta.com](http://www.eelecta.com) it is possible to personalize your HomePads and MiniPads with your style using photos, graphics or icons at your choice.



## Graphical customizations



## Icons customizations



## Frames and Sockets



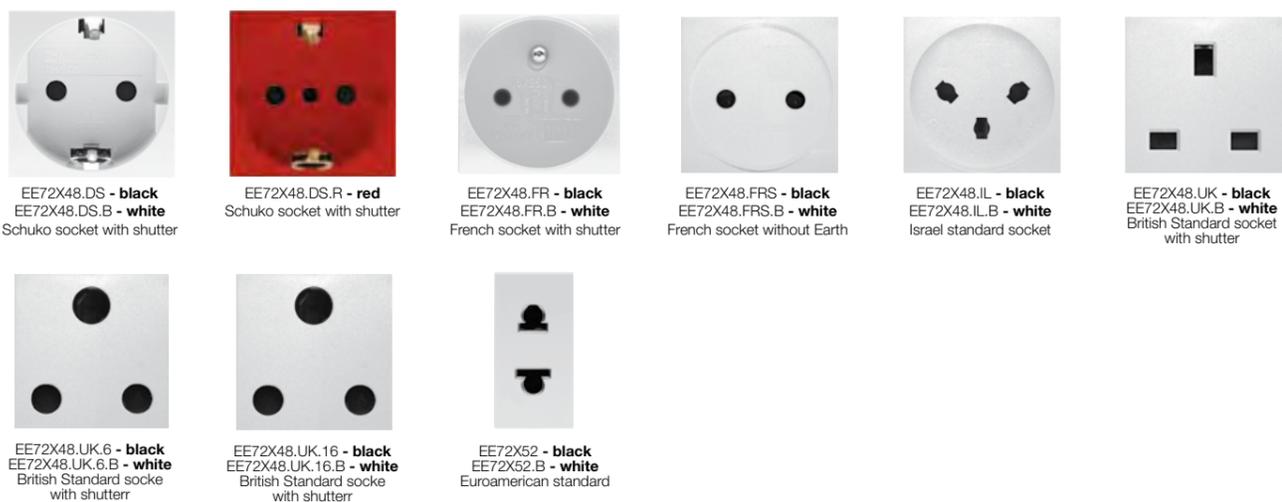
SK01A01ACC Socket plate 2 module - White  
 SK02A01ACC Socket plate 2 module - Chromo  
 SK03A01ACC Socket plate 2 module Black Matte  
 SK01A00ACC - black 2 module 60mm. frame  
 EE72X88 - black  
 EE72X88.B - white  
 Blank module

## Italian standard



EE72X48.D - black  
 EE72X48.D.B - white  
 Schuko socket with shutter  
 EE72X48.D.R - red  
 Schuko socket with shutter  
 EE72X48.I - black  
 EE72X48.I.B - white  
 Trivalent schuko socket  
 EE72X79 - black  
 EE72X79.B - white  
 Bivalent sockets with shutter  
 EE72X70 - black  
 EE72X70.B - white  
 Shuttered sockets  
 EE72X70.R - red  
 Shuttered sockets

## International standard



EE72X48.DS - black  
 EE72X48.DS.B - white  
 Schuko socket with shutter  
 EE72X48.DS.R - red  
 Schuko socket with shutter  
 EE72X48.FR - black  
 EE72X48.FR.B - white  
 French socket with shutter  
 EE72X48.FRS - black  
 EE72X48.FRS.B - white  
 French socket without Earth  
 EE72X48.IL - black  
 EE72X48.IL.B - white  
 Israel standard socket  
 EE72X48.UK - black  
 EE72X48.UK.B - white  
 British Standard socket with shutter  
 EE72X48.UK.6 - black  
 EE72X48.UK.6.B - white  
 British Standard socket with shutter  
 EE72X48.UK.16 - black  
 EE72X48.UK.16.B - white  
 British Standard socket with shutter  
 EE72X52 - black  
 EE72X52.B - white  
 Euroamerican standard

## Special equipment



EE72X86 - black  
 EE72X86.B - white  
 12V/8Va/buzzer  
 EE72X85 - black  
 EE72X85.B - white  
 230V-50/60hz - 12Va/buzzer  
 EE72X93.220 - black  
 EE72X93.220.B - white  
 230V  
 50/60hz-12Va/bell  
 EE72X02.1 - black  
 EE72X02.1.B - white  
 16A 250V/push button  
 EE72X17.1 - black  
 EE72X17.1.B - white  
 Double shutter push  
 EE72X06.1 - black  
 EE72X06.1.B - white  
 16A 250V  
 luminous 1way switch

## International sockets: Data, TEL, TV, SAT



EE72X64.4 - black  
 EE72X64.4.B - white  
 6p/4c/telephone RJ11 sockets  
 EE72X64.C5 - black  
 EE71X64.C5.B - white  
 8p/8c-cat 5/telephone and computer sockets  
 EE72X64.C6 - black  
 EE72X64.C6.B - white  
 8p/8c-cat 6/telephone and computer sockets  
 EE72X58 - black  
 EE72X58.B - white  
 TV sockets - direct  
 EE72X58.F - black  
 EE72X58.F.B - white  
 SAT/TV sockets - direct



New range of **KNX** switches suitable for **eelecta** frames



1 Channel - 2 Channels - 4 Channels KNX  
 Thermostat - 2 inputs

Sockets and Frames with different finishes, available for 2 module inwall box.  
 1,2,4 LED freely configurable.

# eelecta Touch panel 3,5"

In a small space, in a distinctive shape, we have focused all our attention.  
Far from outward appearances, we have privileged the essence of an advanced interface,  
as expected by users





**Personalized:**  
**Screen savers** with  
 personal **photographs**,  
**icons**, **skins**, colour and  
 menu.



**Modular installation:**  
 round or squared 2 modules box, rectangular 3  
 modules box, horizontal or vertical.

- Direct KNX bus connection
- 12/30 Volt DC power supply
- Integrated buzzer for alarm signalling
- Frontal led for signalling or night light
- Programmable pages with 8 functions  
 + 1 alarm page
- Settable password protection
- Integrated thermostat
- Supercap battery for clock memory after  
 temporary (24h) black out.

**Tarif and load control**

With a clever management of energy related expenditures, energy saving goes long with control and efficiency.

**Temperature control and management local or zone based.**

The touch panel has an integrated thermostat, managing 2 or 4 pipes systems, residential systems, air conditioning. Every temperature zone dedected from HomePads is programmed on an hour, day and week base.

**Colour selection for RGB/DMX lighting on colour palette.**

Coloured light sequences, programmed to show emotional scenarios, design and wellness environments

**Scenarios, shutters, lights, external drives, loads management**

One only control point to detect, program and manage every home function.

**Timers, irrigation, morning clock**

Every event is timed: even your morning wake up.

**Entertainment**

From the touch panel, audio systems and external devices (TV, STEREO, etc.), are managed selecting tracks, volumes, sources, artists.



Ceramic white  
 VS00E10KNX

Ivory  
 VS00E11KNX

Black weave  
 VS00E32KNX

Black matte  
 VS00E30KNX

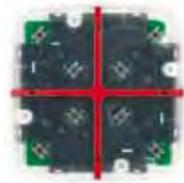
Black matte - Chromo frame  
 VS00E31KNX

Chromo - Black matte frame  
 VS00E21KNX

Bronze  
 VS00E50KNX

Gold  
 VS00E40KNX

Chromo  
 VS00E20KNX



## 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 CODES

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 mm<sup>2</sup>

#### Dimensions:

- Dimensions: 110 mm x 110 mm



## HOMEPAD - MINIPAD KNX 4CH - BASE

The KNX PB/MB40BxxKNX 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/MiniPad 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 CODES

HomePad KNX 4 CH - Base

**PB40BxxKNX**

MiniPad KNX 4CH

**MB40BxxKNX - WH/CR/BL**

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 mm<sup>2</sup>

#### Dimensions:

- Dimensions: 110 mm x 110 mm or 90 mm x 90 mm



## HOMEPAD - MINIPAD KNX 4CH + 4 IN + THERMOSTAT

The KNX PB/MB40CxxKNX 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/MiniPad 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 device 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 CODES

HomePad KNX 4 CH + 4 IN + Thermostat - Base

**PB40CxxKNX**

MiniPad KNX 4CH + 4 IN + Thermostat

**MB40CxxKNX - WH/CR/BL**

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 mm<sup>2</sup>

#### Dimensions:

- Dimensions: 110 mm x 110 mm or 90 mm x 90 mm



## HOMEPAD - MINIPAD KNX 8 CH + TS

The KNX HomePad PB/MB80AxxKNX 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/MiniPad 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 CODES

HomePad KNX 8 CH + TS - Base

**PB80AxxKNX**

MiniPad KNX 8 CH + TS

**MB80AxxKNX - WH/CR/BL**

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 Tensione 21..30V DC
- Voltage 21 .. 30V DC
- Current consumption EIB / KNX <10mA

#### 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 or 90 mm x 90 mm



## HOMEPAD - MINIPAD KNX 8 CH + 4 IN

The KNX PB/MB80BxxKNX 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/MiniPad 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 device has 8 channels and 4 free inputs are available to interface traditional switches from the same range or other conventional switches. (PB40AxxCON)

### ORDER CODES

HomePad KNX 8 CH + 4 IN - Base

**PB80BxxKNX**

MiniPad KNX 8 CH + 4IN

**MB80BxxKNX - WH/CR/BL**

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: 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 mm<sup>2</sup>
- 2 4-way terminals for connection of 4 inputs with cables up to 0,2 mm<sup>2</sup>

#### Dimensions:

- Dimensions: 110 mm x 110 mm or 90 mm x 90 mm



## HOMEPAD - MINIPAD KNX 8 CH - THERMOSTAT - CIRCULAR FUNCTIONS

The KNX PB/MB80CxxKNX 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/MiniPad 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 device 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. The 4 central Pads can be configured for manage functions in a simple way: dimmer, shutters, fan coil speed, thermoregulation; in this case the LED on board can be used as signals for the required functions. On the other way is always possible to use the functions of products as PB/MB80CxxKNX.

### ORDER CODES

HomePad KNX 8 CH + Thermostat + Circular Functions - Base

**PB80CxxKNX**

MiniPad KNX 8 CH + Thermostat + Circular Functions

**MB80CxxKNX - WH/CR/BL**

Order codes are referred to colour palette and has to be completed with functional codes (ex. PB80C11KNX).

### 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 or 90 mm x 90 mm

# Eelecta - HomePads - MiniPads - Touch Panel 3,5"



## 3,5" TOUCH PANEL KNX + THERMOSTAT

The Eelecta touch panel: powerful control in a distinctive shape. With a coloured 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	<b>VS00E10KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Ivory	<b>VS00E11KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Chromo	<b>VS00E20KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Chromo with Black Frame	<b>VS00E21KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Black Matte	<b>VS00E30KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Black Matte with Chromo Frame	<b>VS00E31KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Black Weave	<b>VS00E32KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Gold	<b>VS00E40KNX</b>
Eelecta 3.5" coloured KNX Touch Panel Bronze	<b>VS00E50KNX</b>

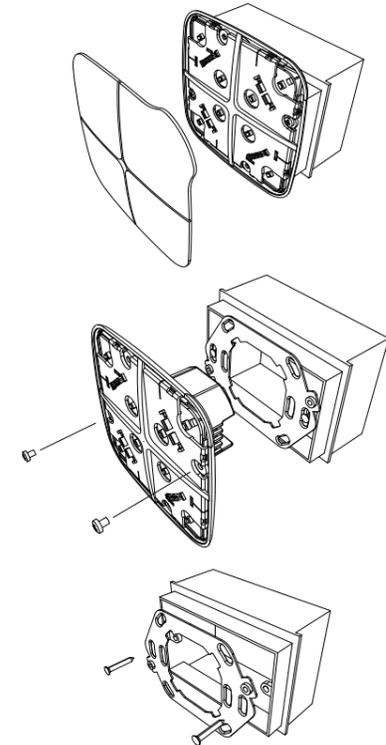
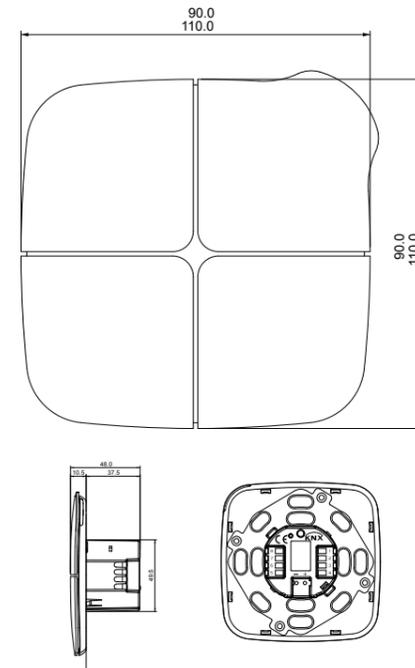
### TECHNICAL FEATURES

- 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

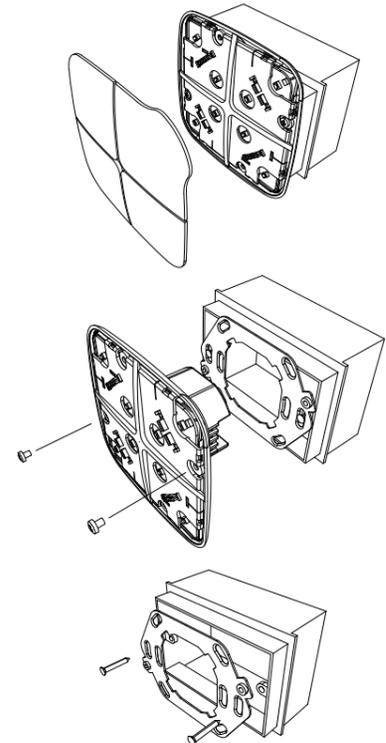
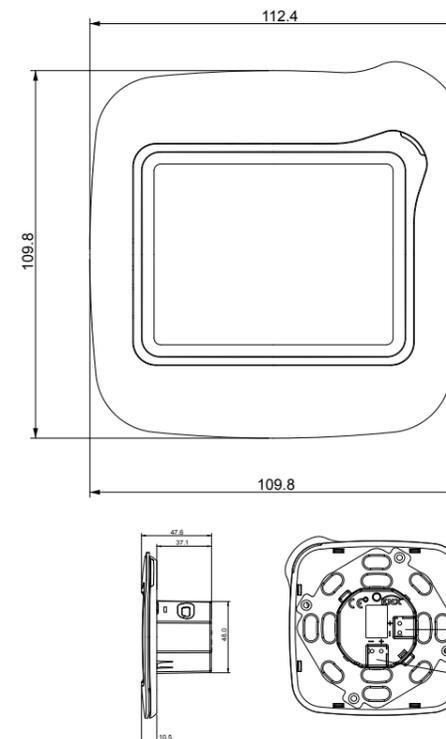
### POWER SUPPLY FOR TOUCH PANEL

Codice	DIN Code	Power Supply	Output
<b>PS00A11ACC</b>	1,5 Mod	230 VAC	12 VDC 15W   6 Touch Panel
<b>PS00A12ACC</b>	4 Mod	230 VAC	12 VDC 30W   12 Touch Panel

# HomePads - MiniPads



# Touch Panel



eelecta is based on standard 2 or 3 module boxes, horizontal or vertical mounted, and is compatible with the swiss, german and british standard.

**eelecta**  
RESIDENTIAL

Synchronicity  
HOSPITALITY

KNX Actuators  
BUILDING



**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.

# Synchronicity

Synchronise events - Synchronise colours

## HotelManagement

More than 23.000 rooms installed worldwide.



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

What are we delivering to our clients?

**Integration**

HVAC System  
BMS System  
Billing (Fidelio, etc..)  
Lights (DMX, Dali..)

**Room and Building Automation**

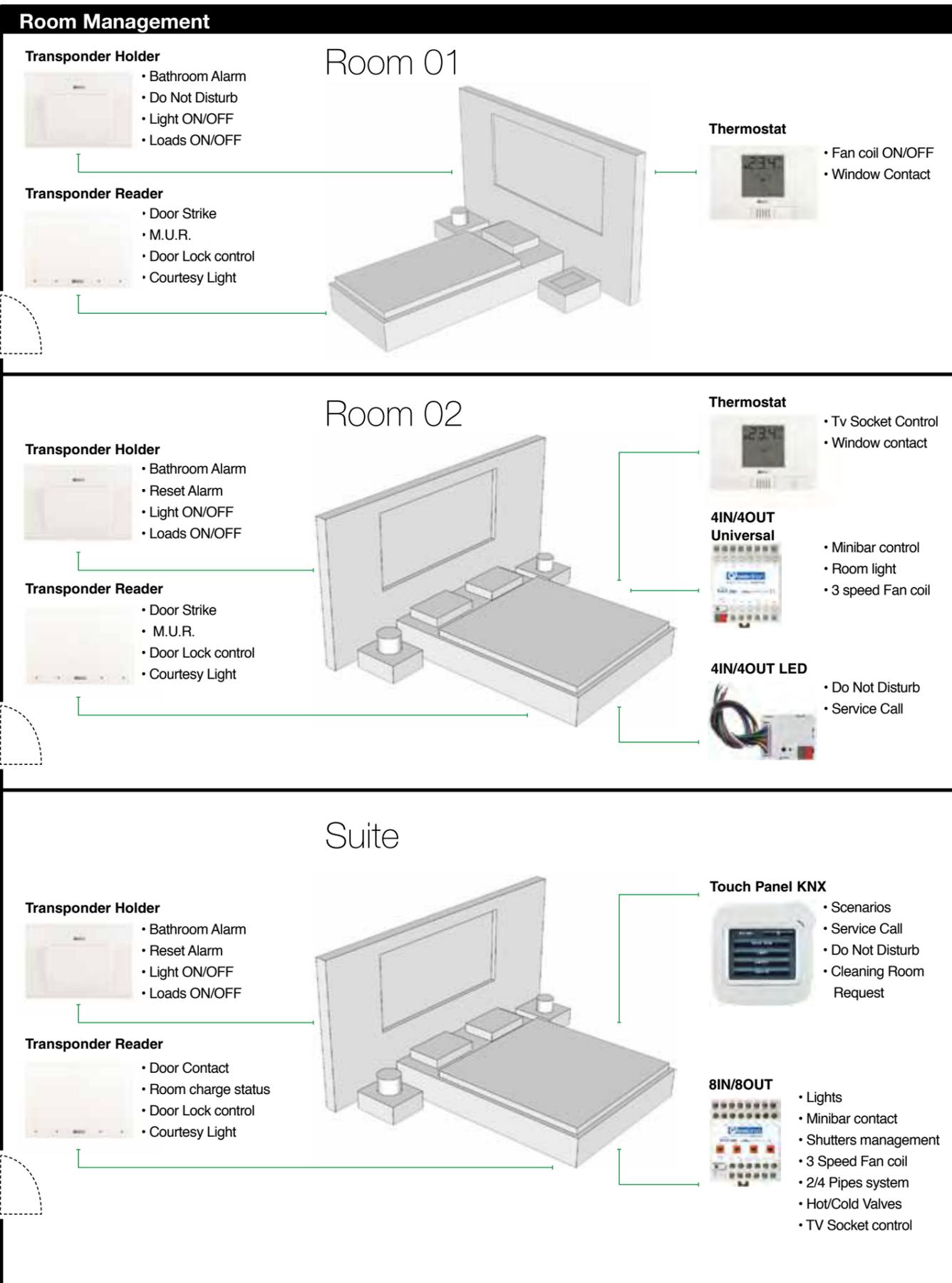
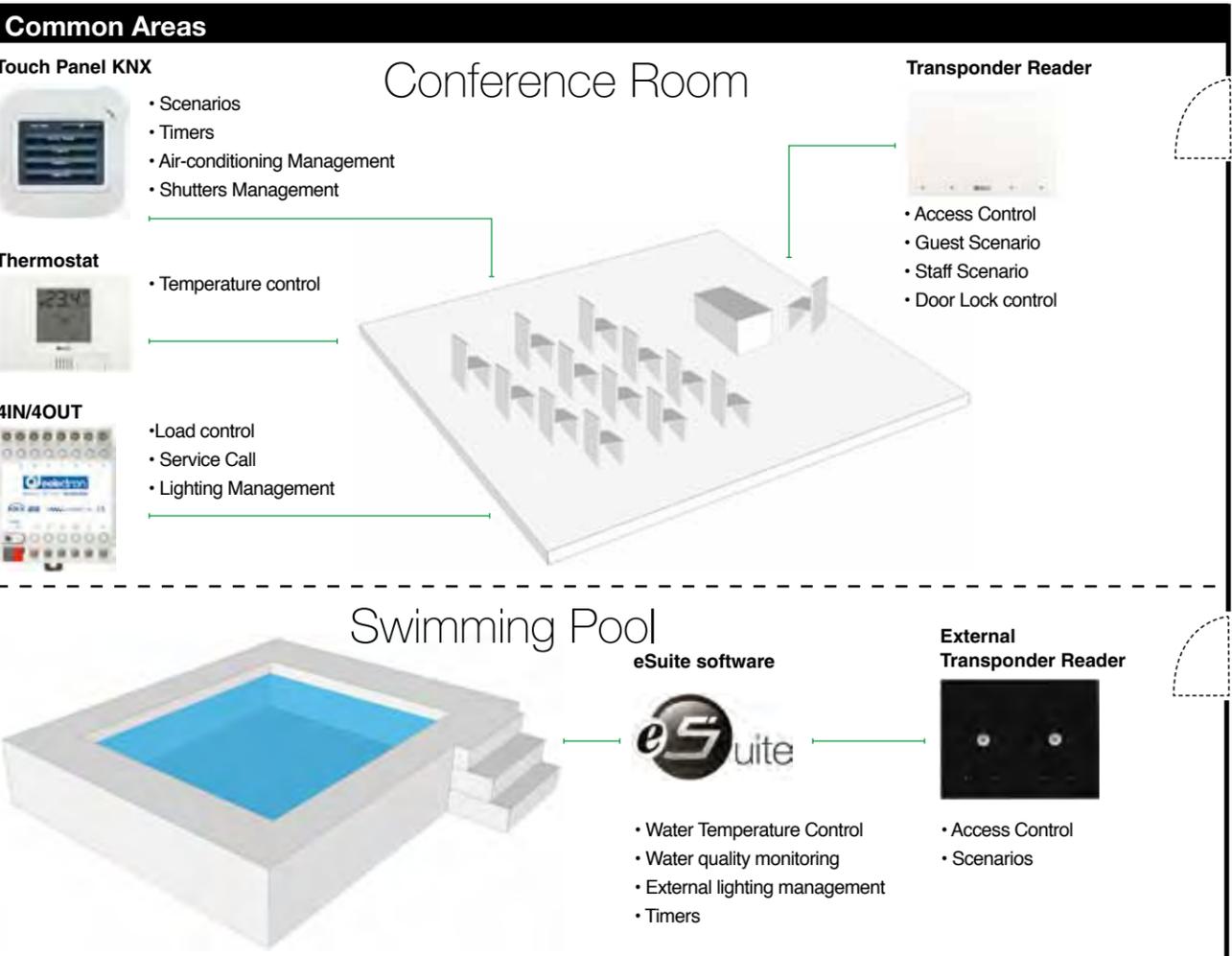
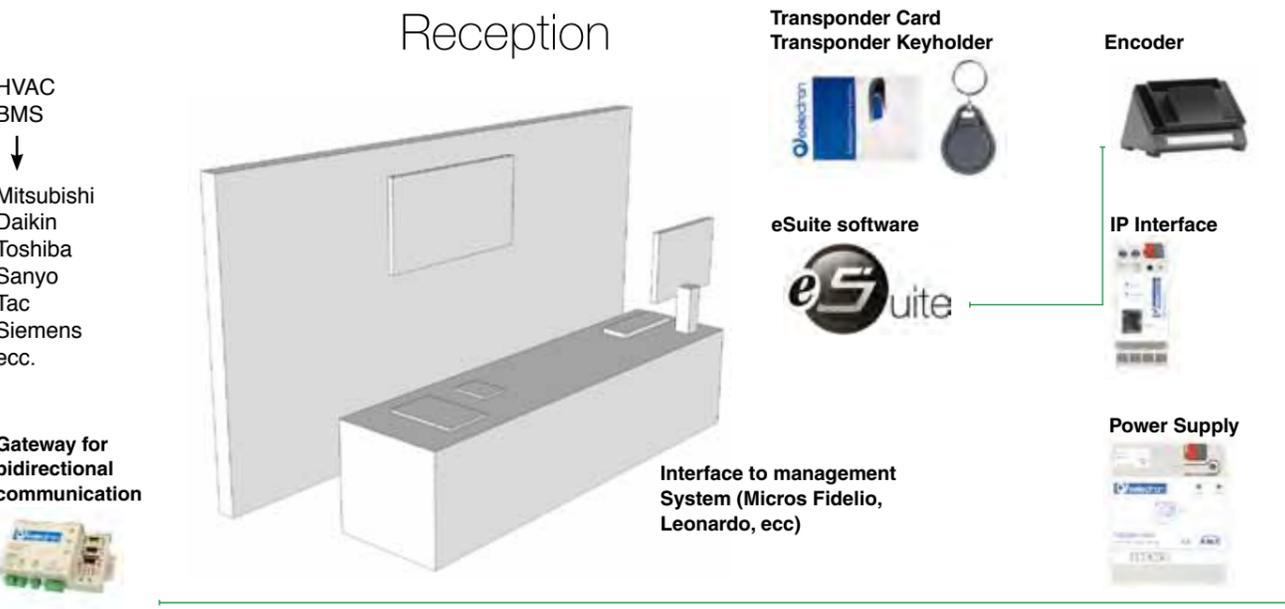
Access Control  
Energy Saving  
Temperature Control  
Lighting Control  
Automation  
Shutter Control  
Services  
External Area Control  
Common Area Management  
Special Functions  
(music/co2/energy metering etc.)

**Supervision**

Automation  
Check in /Check out  
Supervision  
Room and Common Areas Control  
Pre- Heating Functions  
Alarm Log  
Transit Log  
Room to Clean

# Our Hotel Solution

Electron 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.



# Thermoregulation

## 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 a clean 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 use 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

Thermostat 1 IN - 1 OUT - Light gray

**TM11A01KNX**

Thermostat 1 IN - 1 OUT - Anthracite

**TM11A11KNX**

Thermostat 1 IN - 1 OUT - White

**TM11A21KNX**

### TECHNICAL FEATURES

#### Dimension

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

#### Mounting

- Inwall mounting on squared or round boxes

#### Connection

- EIB / KNX bus connecting terminal max 0.8 mm<sup>2</sup>
- Input screw clamp, conductor section max. 1,5 mm<sup>2</sup>
- Output relay screw clamp, conductor section max. 1,5 mm<sup>2</sup>

#### Supply

- From bus KNX 21...30 Vcc SELV

#### FEATURES Input

- 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

## 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 pressing the 3rd and 4th button simultaneously the device send 1 bit command.

### ORDER CODES

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

#### Dimension

- 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 mm<sup>2</sup>
- Input screw clamp, conductor section max. 1,5 mm<sup>2</sup>
- Output relay screw clamp, conductor section max. 1,5 mm<sup>2</sup>

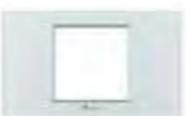
#### Supply

- From bus KNX 21...30 Vcc SELV

#### FEATURES Input

- 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

## TEMPERATURE PROBE 1 IN - 1 OUT



Glass Plate with support for TM11A series.

### ORDER CODES

Silver

**VTxxA01KNX**

Black

**VTxxA11KNX**

White

**VTxxA21KNX**

## 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

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

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 (clean 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 read cards or keys at a maximum distance of 30mm from the front side.

### ORDER CODES

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

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

#### Mounting

- Inwall mounting on squared or round boxes

#### Connection

- EIB / KNX bus connecting terminal max 0.8 mm<sup>2</sup>
- Input and output screw clamps, conductor section max. 1,5 mm<sup>2</sup>

#### 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

#### FEATURES Input

- 2 type ON/OFF clean contacts
- Max length of connection cable 10mt
- Output relay specification
- Number 2 with capacity of the contact relay: 24 VAC/DC 2 A AC1

## TRANSFORMERS FOR ACCESS CONTROL

Codes	DIN	Supply	Output
<b>PS00T10TRA</b>	2 Mod	230 VAC	12/24 VAC 10VA
<b>PS00T24TRA</b>	3 Mod	230 VAC	12/24 VAC 24VA
<b>PS00T40TRA</b>	3 Mod	230 VAC	12/24 VAC 40VA

# Hotel system & Access control

## SUPPORT GLASS PLATE



Glass Plate with support for TR22A series

### ORDER CODES

Support Glass Plate - Silver

**VTxxA02KNX**

Support Glass Plate - Black

**VTxxA12KNX**

Support Glass Plate - White

**VTxxA22KNX**

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

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

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

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

#### Mounting

- Inwall mounting on squared or round boxes

#### Connection

- EIB / KNX bus connecting terminal max 0.8 mm<sup>2</sup>
- Input and output screw terminals, wire section max. 1.5 mm<sup>2</sup>

#### Supply

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

#### FEATURES

- 22 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

#### Inputs specifications

- Scanning power In with locked contact = 1mA per channel
- Output relay specification
- Number 2 with capacity of the contact relay: 24Vac 2 A AC1
- 1 button for ETS programming

## Transformers for Access Control

Codes	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 TR22Ax9KNX 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

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

#### Mounting

- Inwall mounting on squared or round boxes Ø60mm

#### Connection

- EIB / KNX bus connecting terminal max 0.8 mm<sup>2</sup>
- Input and output screw clamps, conductor section max. 1,5 mm<sup>2</sup>

#### FEATURES

- 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 cable 10mt
- 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

Codes	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

Plexiglass plate for External Transponder Reader 2IN - 2 OUT - Black

**PX15A14ACC**

Plexiglass plate for External Transponder Reader 2IN - 2 OUT - White

**PX10A24ACC**

## SYNCHRONICITY CUSTOMIZATION

On demand is possible customize the frames (glass or plexi) for the codes TR22A and TH22A (es. Hotel Logo,number of room...).



Icons



Hotel Logo



Room number

# Hotel system & Access control

## TRANSPONDER HOLDER 2 IN - 2 OUT



The Transponder Holder TH22AxKNX 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

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

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

#### Mounting

- Inwall mounting on squared or round boxes

#### Connection

- EIB / KNX bus connecting terminal max 0.8 mm<sup>2</sup>
- Input and output screw clamps, conductor section max. 1,5 mm

#### 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 cable 10mt

#### Output 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

Codes	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

Silver

**VTxxA03KNX**

Black

**VTxxA13KNX**

White

**VTxxA23KNX**

## 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

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**

## 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 CODES

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

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 hardware version.

### ORDER CODES

eSuite licences to be integrate with room/ zones

eSuite package 5 rooms / zones (MAX 200 rooms / zones)

eSuite additional client

eSuite interface to management systems

Embedded PC with eSuite - until 10 rooms - complete - 2 clients

Embedded PC with eSuite - until 25 rooms - complete - 2 clients

Embedded PC with eSuite - until 40 rooms - complete - 2 clients

Embedded PC with eSuite - until 100 rooms - complete - 2 clients

Embedded PC with eSuite - until 150 rooms - complete - 2 clients

Embedded PC with eSuite - until 200 rooms - complete - 2 clients

Upgrade rack PC

**SW00D01KNX**

**SW00D02KNX**

**SW00D03KNX**

**SW00D04KNX**

**SW01D05KNX**

**SW02D05KNX**

**SW03D05KNX**

**SW04D05KNX**

**SW05D05KNX**

**SW06D05KNX**

**SW07D05KNX**

### TECHNICAL FEATURES

- Number of rooms / common area according to installed license.
- Client workstation 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
- PMS connection available

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

## TRANSPONDER CARDS AND KEY HOLDER



### ORDER CODES

Transponder Cards Blank - 50 pcs

**CD00A02TRC**

Transponder Cards Blank - 250 pcs

**CD00A03TRC**

Transponder Keyholder - 50 pcs

**CD00B02TRC**

#### 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-
- Temperatura di lavoro: da -10°C a 50°C

# Colours Range

## PLEXIGLASS RANGE



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**

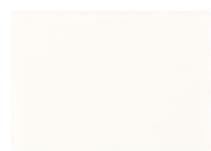
## GLASS RANGE



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

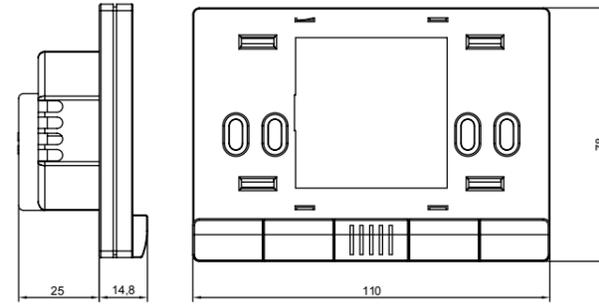


Glass **VT23** Iron

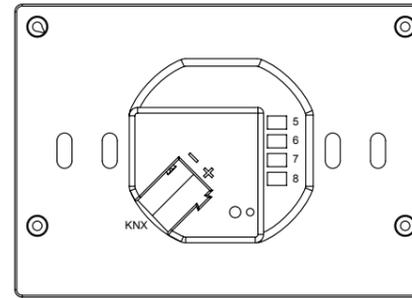


Glass **VT24** Gold

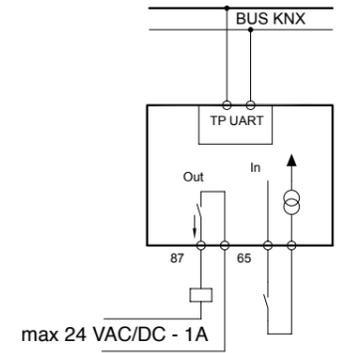
## THERMOSTAT & TEMPERATURE PROBE



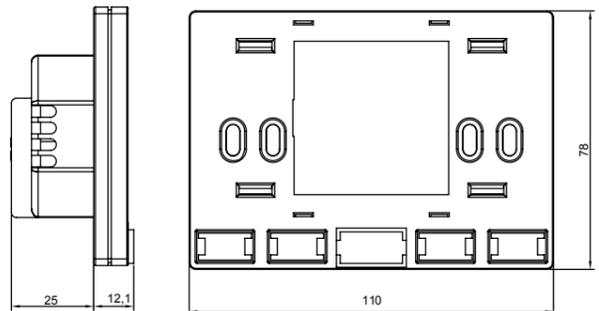
**TM11A01KNX - TM11A11KNX - TM11A21KNX**



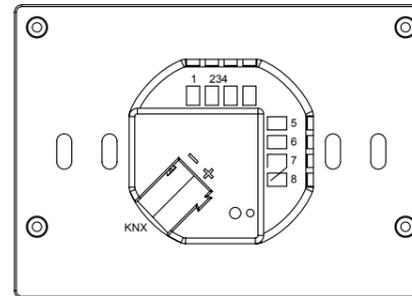
**TM11A01KNX - TM11A11KNX - TM11A21KNX**  
**TM11B01KNX - TM11B11KNX - TM11B21KNX**



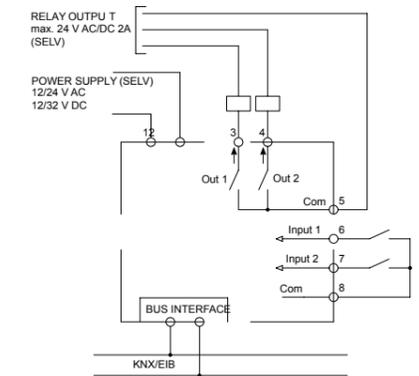
## TRANSPONDER READER & HOLDER



**TR22A01KNX - TR22A11KNX - TR22A21KNX**  
**TH22A01KNX - TH22A11KNX - TH22A21KNX**



**TR22A01KNX - TR22A11KNX - TR22A21KNX**  
**TH22A01KNX - TH22A11KNX - TH22A21KNX**



# KNX Actuators

Actuators, Dimmers, Presence Sensors, System components



Multifunctional 8 IN / 8 OUT

Multifunctional 4 IN / 4 OUT

Available inputs for digital contacts

Compact Dimensions - 4 module

## IO88E01KNX - IO44E01KNX

- Each output can be configured independently for lights
- ON / OFF or continuous switching (PWM) for electric valves
- Roller shutters and blinds motor reductor
- Fan Coil Actuator for 2/4 pipes systems for heating/cooling with 3 speed motors)

### Configuration range:

- 8 lights
- 4 lights - 2 shutters
- 4 shutters
- 8 traditional switches



Inwall 4 Analog IN or 4/8 Digital In - 4 Led Out Module

## AD84A01KNX

- 4 digital inputs to interface free potential contacts
- 4 led output channels at low voltage that can drive LED for synoptics panels or switches
- 4 analog/digital inputs for free potential contacts or temperature sensors

### Configuration range:

- 8 input switch interface - 4 led output
- 2 local thermostats - 6 switches - 4 led output
- 4 thermostats sensor - 4 switches - 4 led output
- 2 local thermostats - 2 sensors - 4 led output - 4 switches

**New** - Inwall 3 IN - 2 Digital - 1 Analog / 2 Out module - With IR receiver



## IO32D01KNX

- 1 analog input for temperature probe
- 2 relay output at 8A for lights (2), shutters (1), valves (on/off or pwm)
- 2 digital inputs for switches.
- IR Receiver Connection

### Configuration range:

- 2 lights - 1 thermostat - 2 switches
- 2 valves - 1 thermostat - 2 switches
- 1 shutter - 1 thermostat - 2 up down switch
- 1 light - 1 valve - 2 switches - 1 thermostat
- 2 lights - 2 switches - 1 IR receiver
- 1 shutter - 2 switches - 1 IR receiver

# 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  
Push Button Interface 4 IN - 4 OUT LED

**IO22C02KNX**  
**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

#### Connection

- Bus line: 2 bus connection terminals, max wire section: 0,8mm<sup>2</sup>
- Inputs and outputs: 12-pin plug connector wired with 0,2 mm<sup>2</sup>

#### 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 MODULE 3 INPUT / 2 OUTPUT

IO32D01KNX module includes: • 2 digital inputs • 1 analog input • 2 relay output (bistable). Digital inputs are intended to be connected to free potential contacts and can interface sensors, traditional buttons, etc; they can be used to on/off commands, dimming, shutter control, scene recall and control, sequences of 3 objects. Analog input, can manage one temperature probe (with On/Off threshold) or one thermostats to control heating and cooling equipments, valves, 2 and 4 pipes fan coils; etc.. Analog input, alternatively to the temperature sensor, can manage a Infrared Receiver (IRX) in order to forward to the bus up to 8 channel coming from a Infrared Remote Control (IRC) with on/off commands, scenes, sequences of 2 objects, dimmer and shutter. Outputs include switching function with timed delays, stair-case function, scene recall, lock or logic function.

### ORDER CODE

Inwall Module 3 IN / 2 OUT

**IO32D01KNX**

### TECHNICAL FEATURES

#### Dimensions

- 52 x 28 mm Weight: approx. 50 g

#### Supply

- Via bus EIB/KNX cable
- Voltage 21 ..30V DC
- Current Consumption EIB/KNX < 10mA

#### Digital Input

- For free potential contacts (dry contacts)
- Max. length of Connecting Cable: ≤ 30 m (twisted cable)
- Voltage Scanning: 3,3 V DC (internally Generated)
- AWG24 cables with 1800 mm length

#### Analog Input for temperature probe

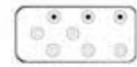
- For NTC temperature probe eelectron code
- TS01A01ACC (range from -20°C to +100°C)
- TS01B01ACC (range from -50°C to +60°C)
- Max. length of Connecting Cable: ≤ 20 m (twisted cable)

#### Analog Input for Infrared Receiver (IRX)

- These accessories must be used:
- IR01A01ACC (IRX with cable and connector)
- RC80A01IRC (IR remote control 8 channels)

#### Outputs

- 10 A cos 1 - 230 Vac
- Max capacitance @230V: 21µF 5.000 cycles
- Incandescent lamps max load: 1500W 50.000 cycles
- Fluorescent lamps max load: 6 x18W 25.000 cycles
- Halogen lamps max load: 500W 50.000 cycles
- Gas discharge lamps max load: 200W 25.000 cycles



**RC01A01IRC**  
IRC Device



**IR00A01ACC**  
IRX Cabling



**TS01A01ACC**  
Temperature probe



**TS01B01ACC**  
External temperature probe



## 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

#### 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 mm<sup>2</sup> - 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 mm<sup>2</sup> 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



**TS01A01ACC**  
Temperature probe



**TS01B01ACC**  
External temperature probe



## UNIVERSAL 4 IN - 4 OUT C-LOAD

The DIN RAIL 4 Input / 4 Output Modules IO44B02KNX-C 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 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 CODE

Universal 4 IN / 4 OUT C-Load

**IO44B02KNX-C**

### TECHNICAL FEATURES

#### 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 0,8mm<sup>2</sup>
- Outputs: 2 screw connectors by channel max section 4 mm<sup>2</sup>
- Inputs: 3 connectors every 2 inputs, max. section 4 mm<sup>2</sup>

#### 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
- Resistive: 16 A Max
  - Incandescent lamps: 10 A Max
  - Motors and motor reducers: 10 A Max
  - Fluorescent lighting transformer. Electronic: 6 A Max
  - Fluorescent lamps (Max. 140 µ) (700W Max)



## UNIVERSAL 8 IN - 8 OUT C-LOAD

The DIN RAIL 8 Input / 8 Output Module IO88B02KNX-C 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 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. Device is intended to be installed on DIN rail.

### ORDER CODE

Universal 8 IN - 8 OUT C-Load

**IO88B02KNX-C**

### TECHNICAL FEATURES

#### 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 0,8mm<sup>2</sup>
- Outputs: 2 screw terminals by channel max. section 4 mm<sup>2</sup>
- Inputs: 3 screw terminals every 2 inputs, max. section 4 mm<sup>2</sup>

#### 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
- Resistive: 16 A Max
  - Incandescent lamps: 10 A Max
  - Motors and motor reducers: 10 A Max
  - Fluorescent lighting transformer. Electronic: 6 A Max
  - Fluorescent lamps (Max. 140 µ) 700W Max



## MULTIFUNCTIONAL 4 IN / 4 OUT - MULTIFUNCTIONAL 8 IN / 8 OUT

The products IO44E01KNX & IO88E01KNX 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 are equipped with 4 or 8 binary inputs (clean contacts) and 4 or 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.

### ORDER CODES

Multifunctional 4 IN / 4 OUT

Multifunctional 8 IN / 8 OUT

**IO44E01KNX**

**IO88E01KNX**

### TECHNICAL FEATURES

#### 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 0,8mm<sup>2</sup>
- Outputs: 2 screw terminals for channel Max. 4 mm<sup>2</sup>
- Inputs: 3 screw terminals every 2 inputs, Max. 4 mm<sup>2</sup>

#### Supply

- From KNX bus 21 ..30 V DC SELV

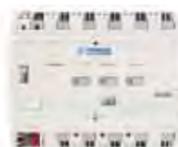
#### Features

- 4 or 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

# ACTUATORS - INTERFACE - PRESENCE SENSOR KNX



## 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

- (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 mm<sup>2</sup>
- Outputs: 2 plug-in terminals for each channel section conductors from 0.75 mm<sup>2</sup> to 2.5 mm<sup>2</sup>

#### 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



## 3 OUT 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

3 OUT Dimmer 1-10V

**DM03C01KNX**

### TECHNICAL FEATURES

#### 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 0,8mm<sup>2</sup>
- Outputs: 2 screw terminals for the relay contact and 2 for the change
- 1-10v, up to section conductors. 2.5 mm<sup>2</sup>

#### 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 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

#### 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

- 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



## 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

- 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 / momentarily (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



## 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 CODE

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

# 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 CODE

160 mA Power Supply

320 mA Power Supply

640 mA Power Supply

**PS00C01KNX**

**PS00B02KNX**

**PS00B03KNX**

### TECHNICAL FEATURES

#### Dimensions

- H 90 x W 72 x D 58 mm for PS00C01KNX & 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 0,8mm<sup>2</sup>
- Power supply 230V with plug-in terminals, cable max section 2,5mm<sup>2</sup>

#### 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 independent 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 0,8mm<sup>2</sup>
- Secondary line bus, KNX connection terminal, cable section 0,8mm<sup>2</sup>

#### 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 transmission of KNX telegrams to several devices. It can also be used as a programming interface KNX bus system

### ORDER CODE

USB / KNX Interface

IP / KNX Interface

IP ROUTER / KNX Interface

**IN00A01USB**

**IN00A01PI**

**IN00A01RIP**

### TECHNICAL FEATURES

#### 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 0,8mm<sup>2</sup>
- USB type B socket

#### Connections for Interface IP - IP Router / KNX

- Bus line bus connecting terminal, wire max section 0,8mm<sup>2</sup>
- Complementary power supply: 2-wire screw terminals with max section 4 mm<sup>2</sup>
- 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

# 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 CODE

Double-bus cable 2x2x0, 8 coils 100mt

Double-bus cable 2x2x0, 8 coils 500mt

Double-bus cable 2x2x0, 8 coils 1000mt

Single bus cable 1x2x0, 8 coils 100mt

Single bus cable 1x2x0, 8 coils 500mt

Single bus cable 1x2x0, 8 coils 1000mt

**CV00A01KNX**

**CV05A01KNX**

**CV10A01KNX**

**CV00A02KNX**

**CV05A02KNX**

**CV10A02KNX**

### TECHNICAL FEATURES

#### 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 CODE

3v LED indicator light blue wiring red-black - 20 pcs

3v LED indicator light blue wiring red-black - 60 pcs

3v LED indicator light white wired red-black -20 pcs

3v LED indicator light white wired red-black -60 pcs

**LD00A01ACC**

**LD00A02ACC**

**LD00A11ACC**

**LD00A12ACC**

### TECHNICAL FEATURES

#### 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 CODE

Wago connector Red / Black Box 10 pcs

Wago connector Red / Black Box 500 pcs

### 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

**WG00A01ACC**

**WG00A02ACC**

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:

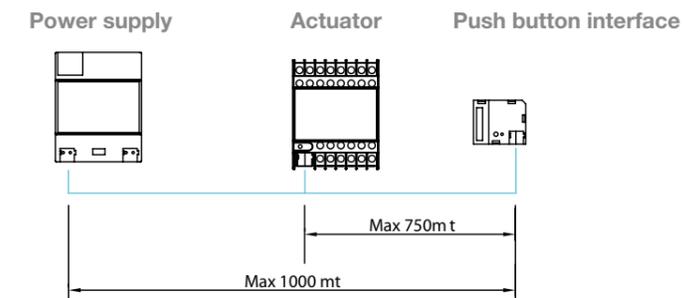
- European Standard (CENELEC EN 50090, CEN EN CEN 13321-1 and EN 1332-2 "KNXnet / IP")
- International Standard (ISO / IEC 14543-3)
- Chinese Standard (GB / Z 20965)
- U.S. Standard (ANSI / ASHRAE 135)

For more information see the Konnex website at: [www.konnex.org](http://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.

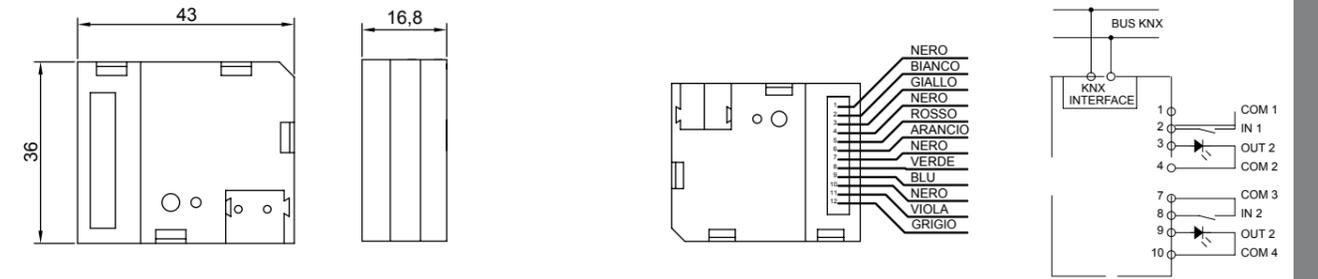


### TECHNICAL CHARACTERISTICS OF THE SYSTEM

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).
Disposizione cavo	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	21-30 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

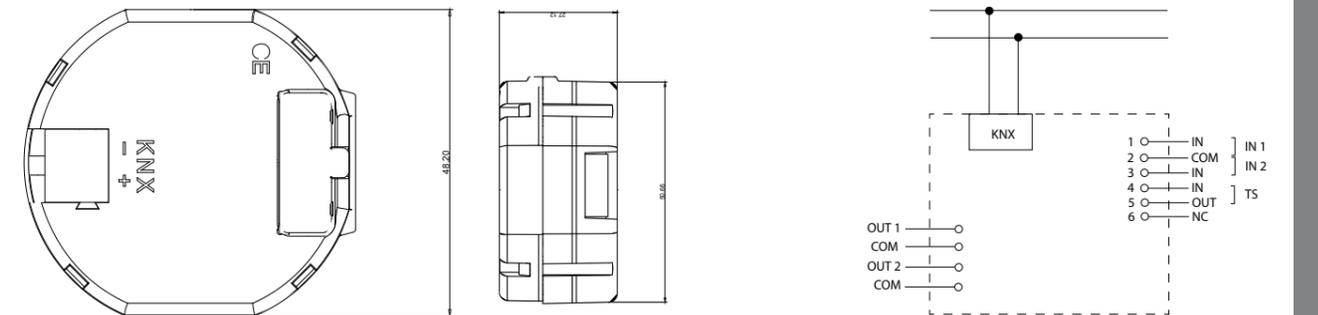
### PUSH BUTTON INTERFACE 2 IN / 2 OUT LED - PUSH BUTTON INTERFACE 4 IN / 4 OUT LED

IO22C02KNX - IO44C02KNX



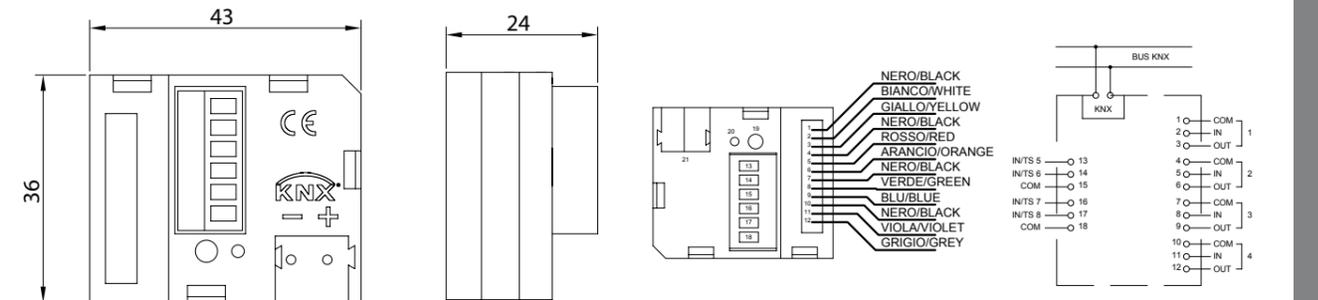
### INWALL MODULE 3 IN / 2 OUT

IO32D01KNX



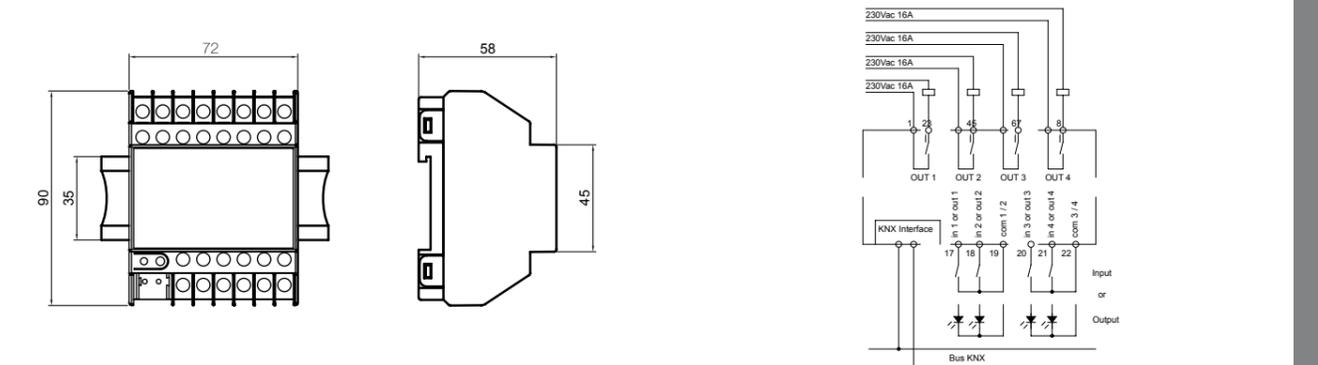
### INWALL 8 INPUT/4 LED OUTPUT MODULE

AD84A01KNX

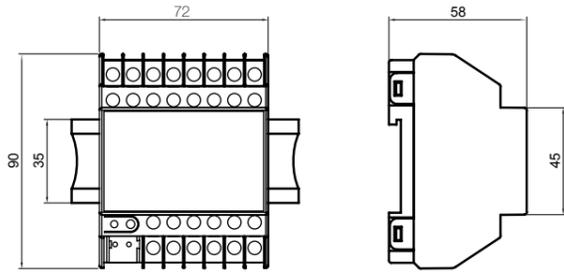


### UNIVERSAL 4 IN / 4 OUT C-LOAD - MULTIFUNCTIONAL 4 IN / 4 OUT

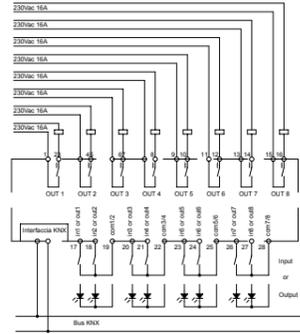
IO44B02KNX-C - IO44E01KNX



UNIVERSAL 8 IN / 8 OUT C-LOAD - MULTIFUNCTIONAL 8 IN / 8 OUT

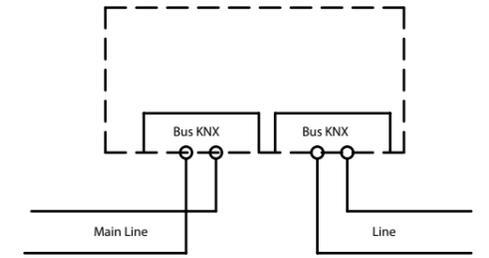
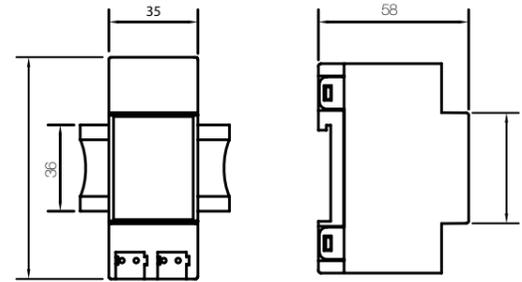


IO88B02KNX-C - IO88E01KNX

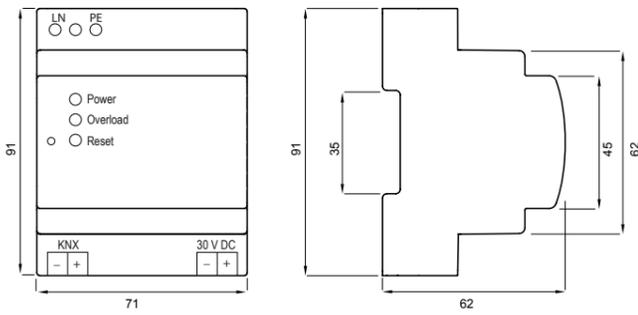


BUS LINE COUPLER KNX

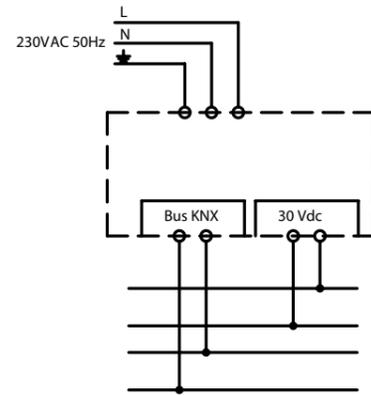
PS00B05KNX



160 mA POWER SUPPLY

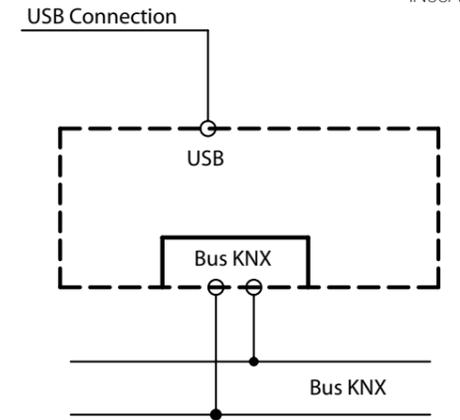
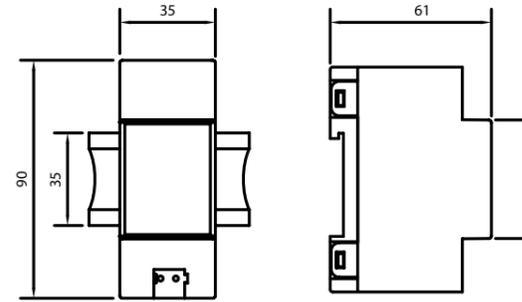


PS00B01KNX

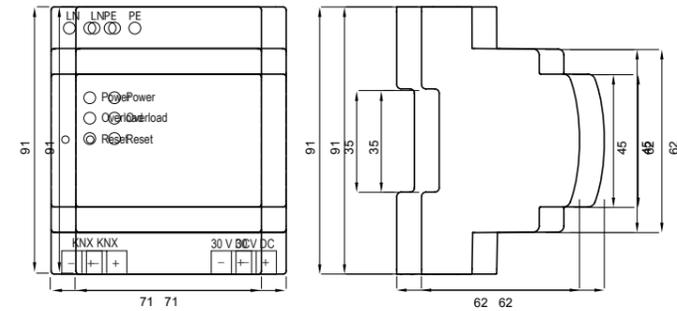


USB/KNX INTERFACE

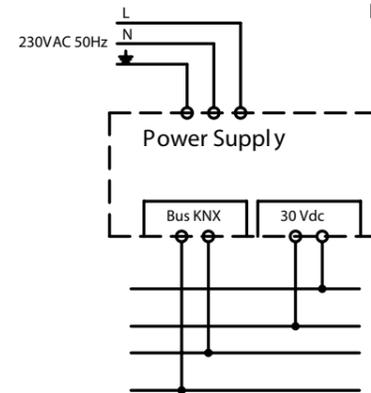
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320 mA POWER SUPPLY

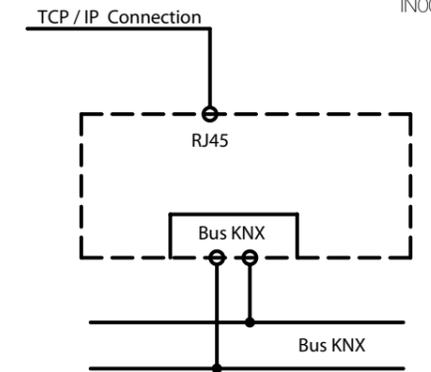
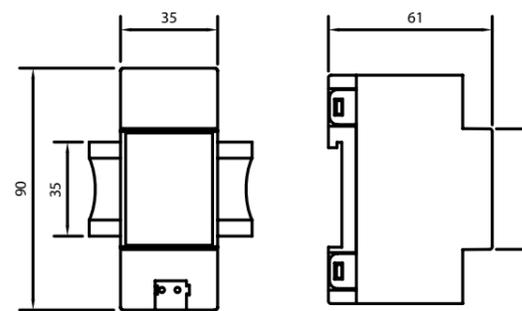


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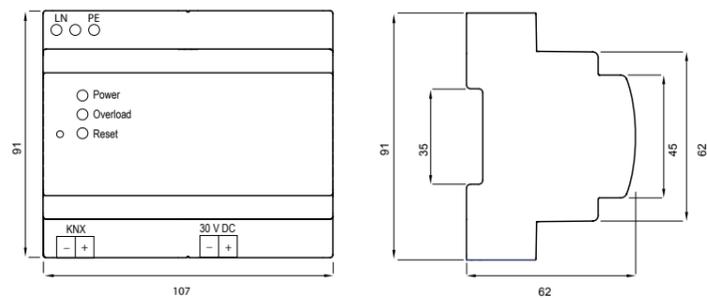


IP ROUTER /KNX INTERFACE - IP/KNX INTERFACE

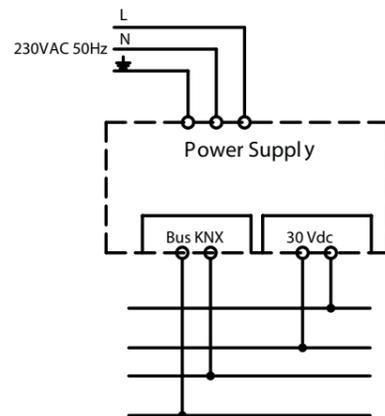
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IN00A01IPI



640 mA POWER SUPPLY



PS00B03KNX





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