eelecta

You, in an homy and environmental world

What's this?

NOT A SWITCH

eelecta

is a range of products

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 houses, buildings, hospitality

Eelecta

4 or 8 KNX channels freely programmable

4 auxiliary inputs to connect traditional switches

Temperature sensor integrated with thermostat functions

Long/short pressure management

Conventional interfaces available to be connected to the main interface

Multi-shape covers with icon serigraphy available

Central cross in 8 colours

✓ Bus power supply

✓ Night and status signalling

✓ On/off, dimming, shutter control

✓ Scenes set, memory and recall function

✓ ETS programming

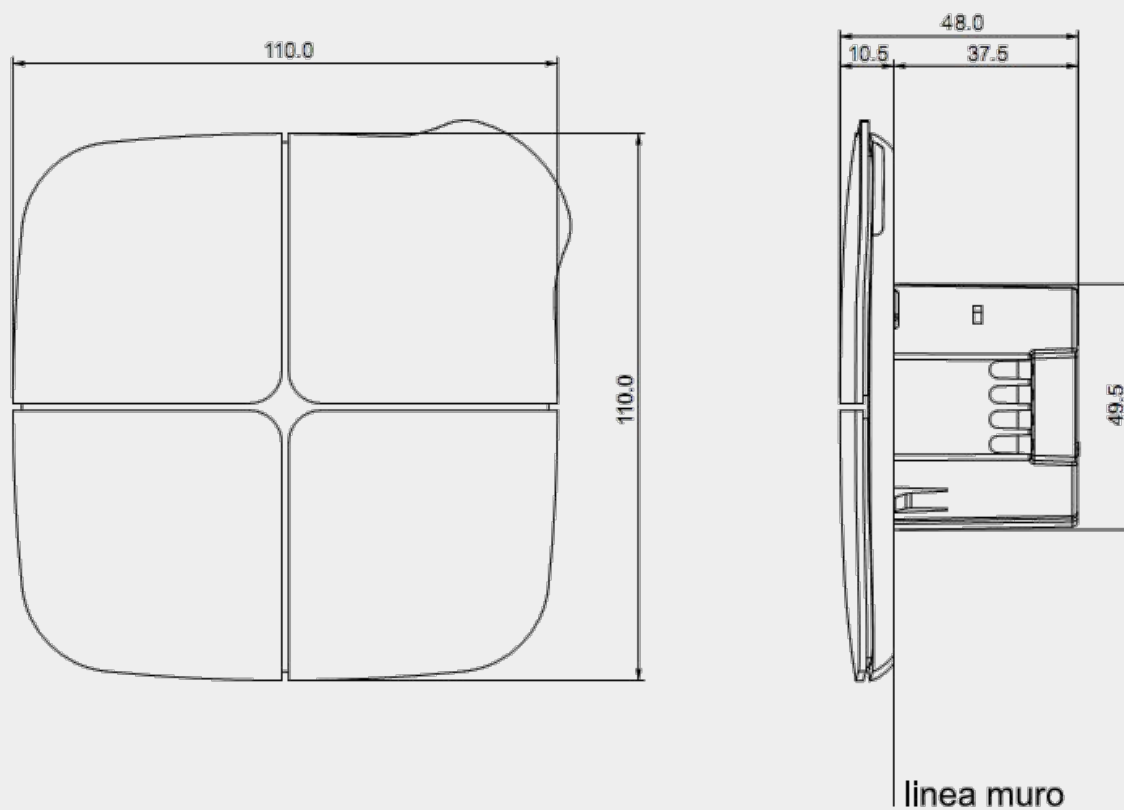✓ Installation in 503 or round 2 modules inwall boxes

✓ Available in 3 colours

- Night signaling

- Personalized on request

EELECTA – KNX DEVICES

MAXIMUM DIMENSIONS

110.0

110.0

48.0

10.5 37.5

49.5

linea muro

EELECTA – KNX DEVICES

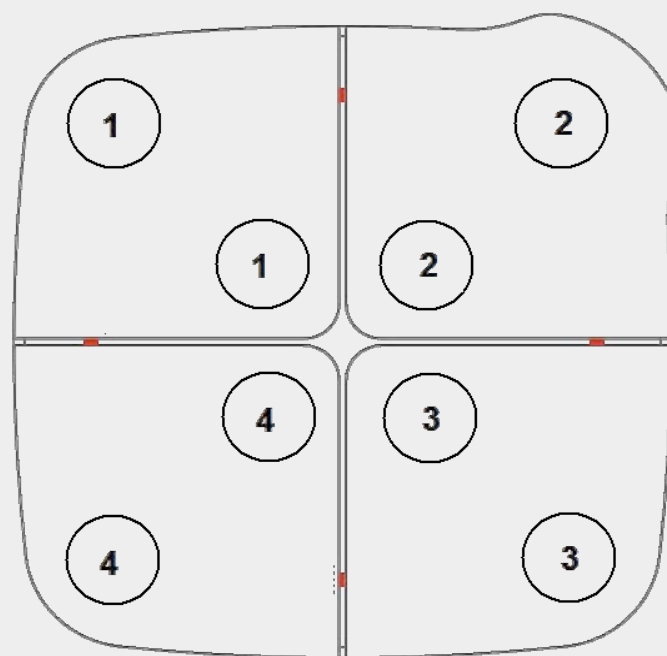| CODE	DESCRIPTION	BUTTONS	INPUTS	TEMP. PROBE
PB**40A**xxKNX	4 channels -traditional	**4**	NO	NO
PB**40B**xxKNX	4 channels - KNX	**4**	NO	NO
PB**40C**xxKNX	4 channels – KNX	**4**	**4**	**SI**
PB**80A**xxKNX	8 channels - KNX	**8**	NO	**SI**
PB**80B**xxKNX	8 channels - KNX	**8**	**4**	NO

EELECTA – KNX DEVICES

Switches positioning
PB80AxxKNX e PB80BxxKNX
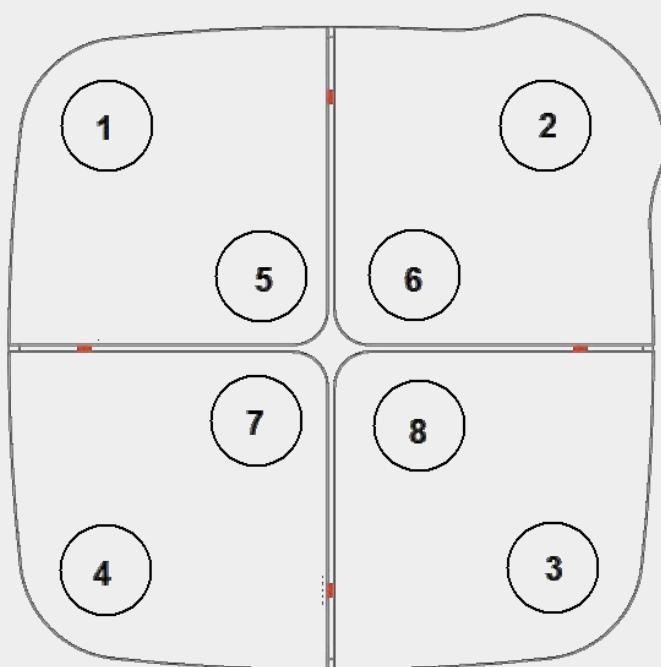
Switches positioning
PB40BxxKNX e PB40CxKNX

Building and Home Evolution

EELECTA – KNX DEVICES

Inputs positioning PB40CxxKNX e PB80BxxKNX
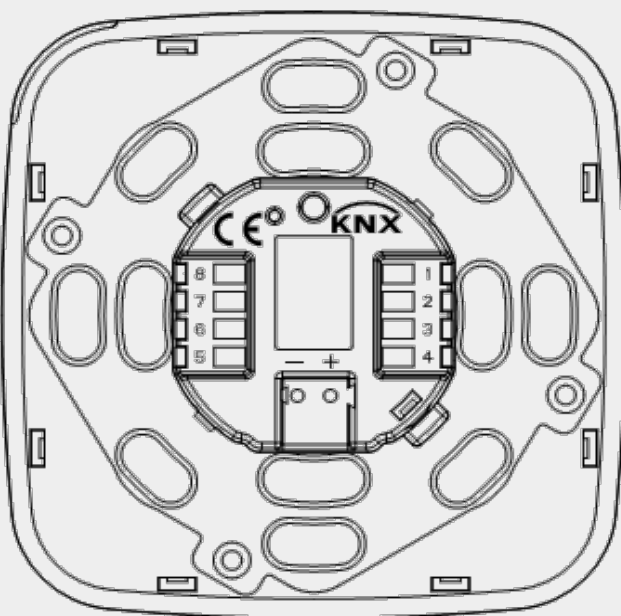
Inputs:

1: Input N° 4
2: Common
3: Input N° 3
4: Common
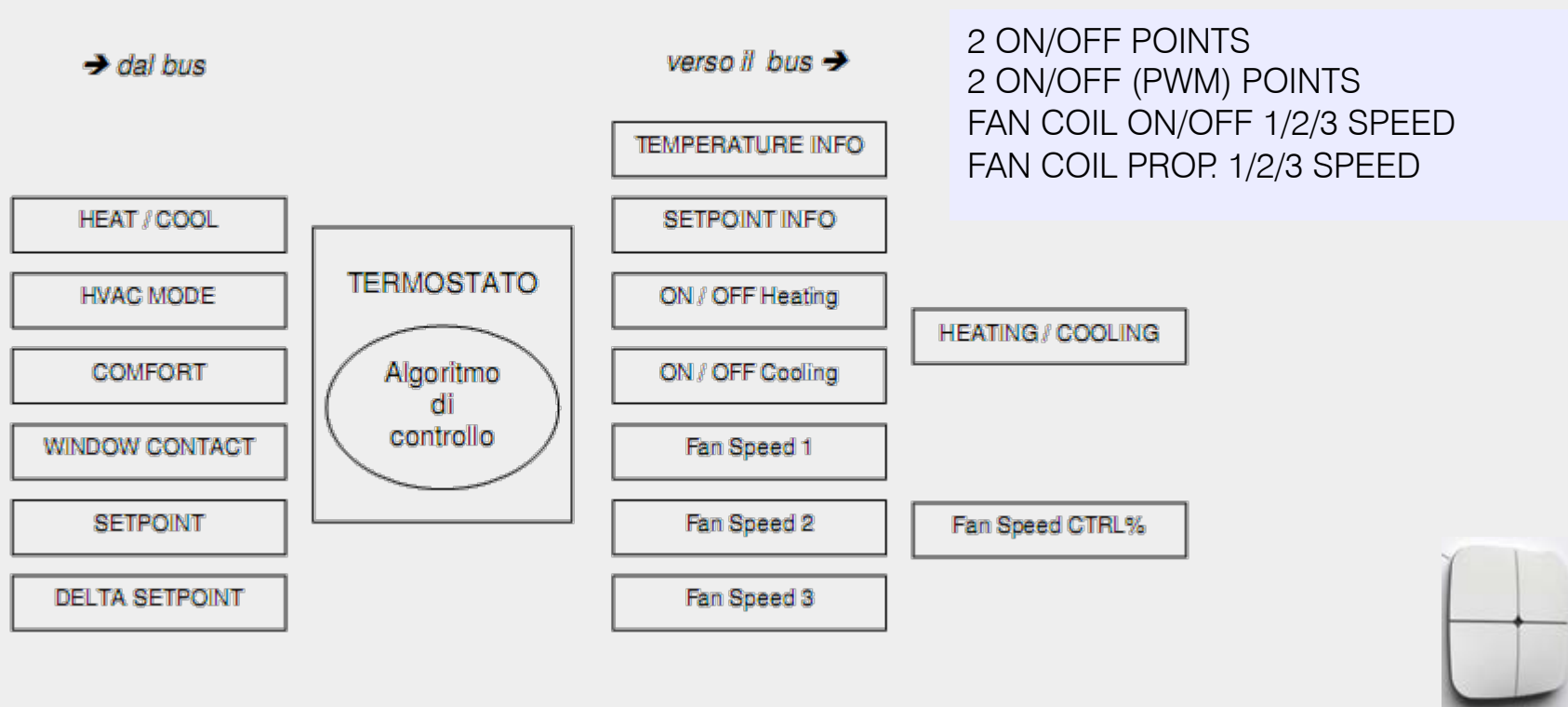5: Common
6: Input N° 2
7: Common
8: Input N° 1

Inputs:

→ FOR DRY CONTACTS

→ MAXIMUM LENGHT 10 m.

MAIN THERMOSTAT FUNCTIONS

➔ *dal bus*

➔ *verso il bus* ➔

| HEAT / COOL |
| HVAC MODE |
| COMFORT |
| WINDOW CONTACT |
| SETPOINT |
| DELTA SETPOINT |

TERMOSTATO

Algoritmo di controllo

| TEMPERATURE INFO |
| SETPOINT INFO |
| ON / OFF Heating |
| ON / OFF Cooling |
| Fan Speed 1 |
| Fan Speed 2 |
| Fan Speed 3 |

| HEATING / COOLING |

| Fan Speed CTRL% |

2 ON/OFF POINTS
2 ON/OFF (PWM) POINTS
FAN COIL ON/OFF 1/2/3 SPEED
FAN COIL PROP. 1/2/3 SPEED

EELECTA – KNX DEVICES

PLUS:

✓More design
✓Clear signalling with icons or colours;
✓More colour, and no need to hide;
✓Less costs;
✓Less occupied space;
✓Less broken walls;
✓Less cabling;
✓Less power supplying
✓All in standard 2/3 modules boxes
✓A universal interface that can be matched with other series
✓Complex temperature management controlled from the touch/interface

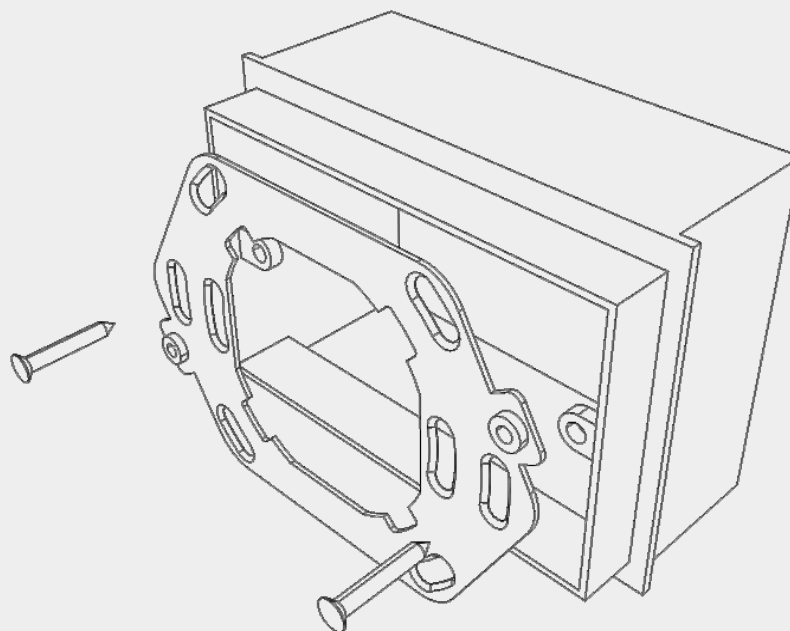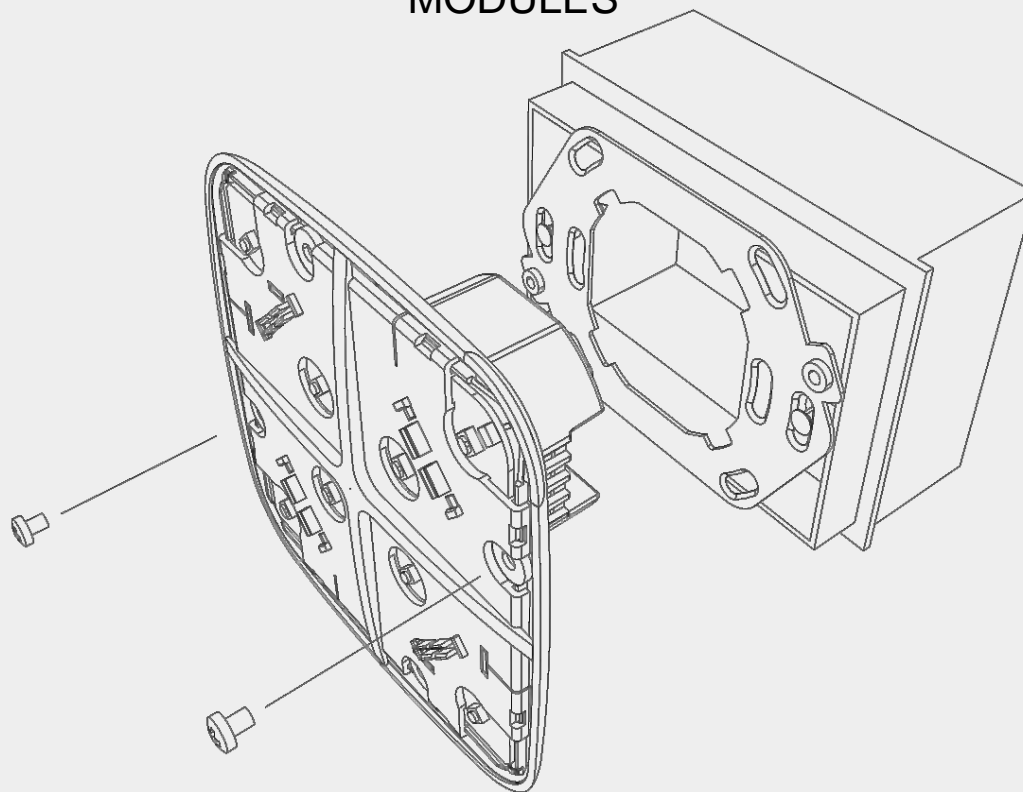- Night signaling

- Personalized on request

EELECTA

INWALL MOUNTING
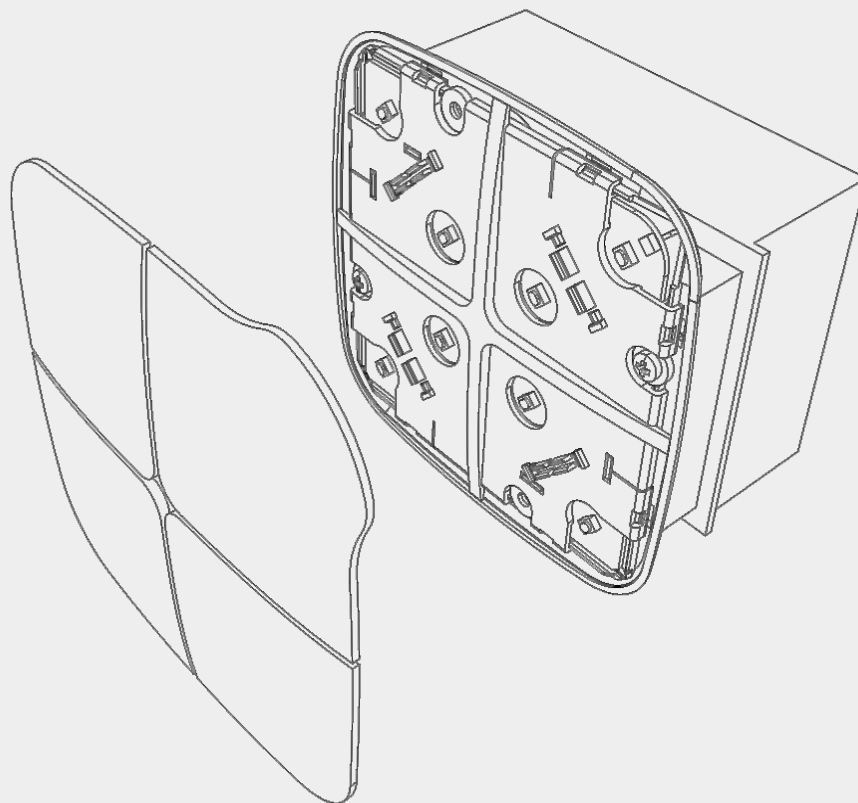ROUND – SQUARED BOXES – 2 and 3
MODULES
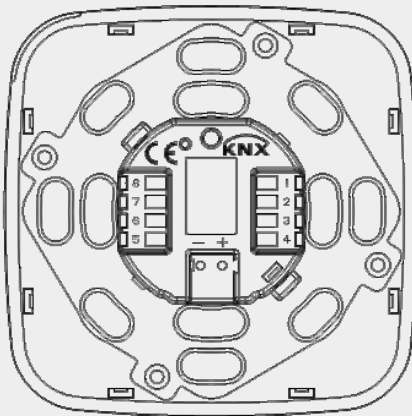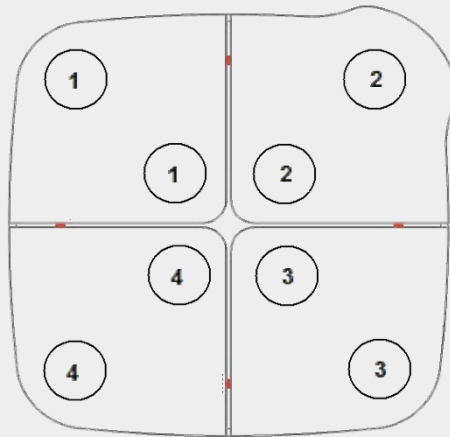
Building and Home Evolution

EELECTA

INWALL MOUNTING
ROUND – SQUARED BOXES – 2 and 3
MODULES

EELECTA

COVER MOUNTING

EELECTA – CONVENTIONAL INTERFACE

→ CODE: **PB40AxxCON**

→ **NOT** A KNX DEVICE
→ NO P.SUPPLY NEEDED
→ NO LEDS
→ 4 SWITCHES
→ DRY CONTACTS TO INTERFACE IN A KNX INTERFACE
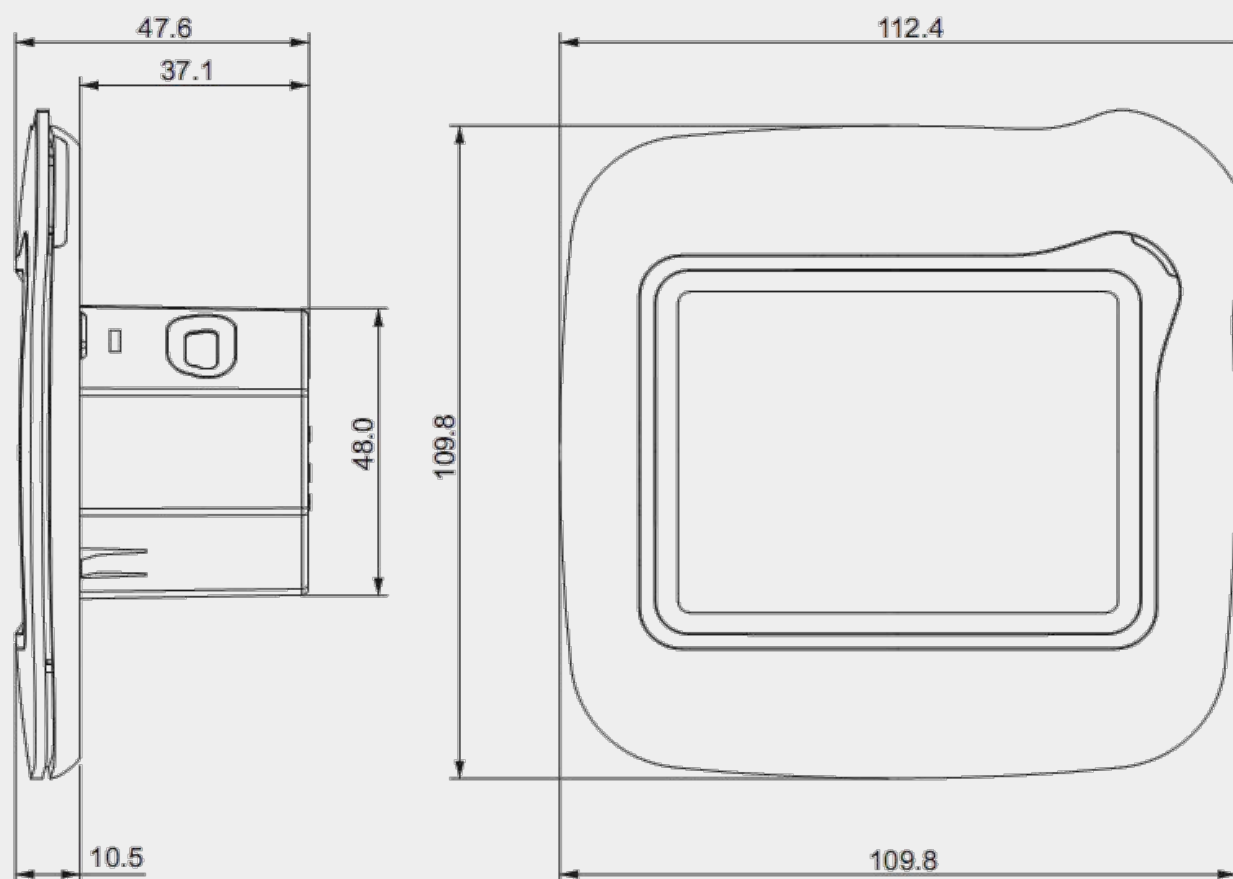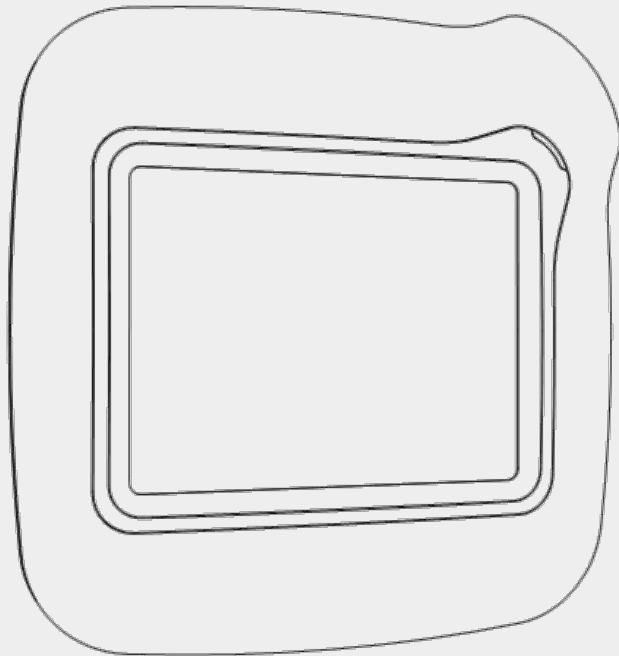→ MAX OPERATING TENSION 12 Vdc / 50 mA

EELECTA KNX TOUCH PANEL

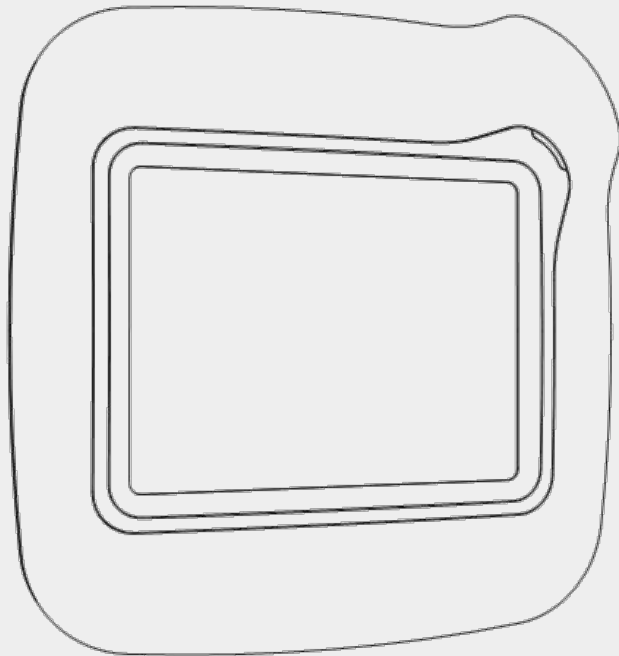EELECTA KNX TOUCH PANEL

MAXIMUM DIMENSIONS

EELECTA KNX TOUCH PANEL

MAIN HARDWARE FEATURES

→ 3,5" TFT COLOUR DISPLAYI ¼ VGA (256K colori)
→ TOUCH SCREEN
→ FRONTAL LED
→ BUZZER
→ARM 200MHz 32-Bit Processor
→ KNX / EIB
→ Auxiliary POWER SUPPLY 9 ÷ 32 V dc
→ MINI USB PORT
→ 1 DAY HOUR AND TIME BACK UP WITH
        SUPERCAPACITOR
→ OS: LINUX

EELECTA KNX TOUCH PANEL

SOFTWARE FEATURES 1

→ ETS PROGRAMMING
→ 5 pages with 8 elements
→ 6th alarm page (8 elements)
→ Until 4 KNX objects for every element
→ Colour palette
→ Wide range of developed elements:
　　　Switch, push button
　　　slider controller
　　　Increase/decrease
　　　Valus, setpoint regulation
　　　Dimmer
　　　Shutters, Blinds
　　　HVAC system control
　　　Timers, etc.
→ Every page can be password protected
→ Customizable Fonts, skins, parameters, navigation bars, screensaver

EELECTA KNX TOUCH PANEL

SOFTWARE 2
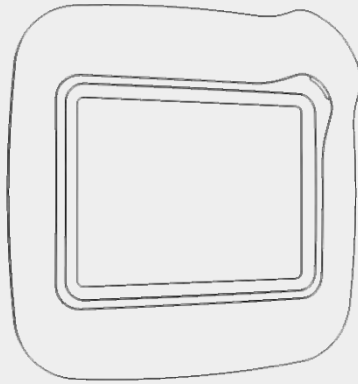
SYSTEM KNX / EIB OBJECTS
→Time and Hour sending
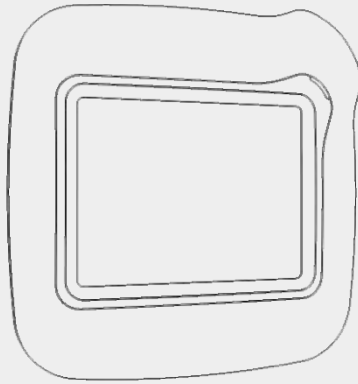→Standby recall with a KNX / EIB object

Number	Name	Object Function	Length	C	R	W	T	U	Data Type	Group Addr...
192	System Time	System Time	3 Byte	C	R	-	T	-	Time DPT_TimeOfDay	
193	System Date	System Date	3 Byte	C	R	-	T	-	Date DPT_Date	
194	System Standby	System Standby	1 bit	C	R	W	-	U	1 bit	
195	System LED1	System LED1	1 bit	C	R	W	-	U	1 bit DPT_Switch	
196	System LED2	System LED2	1 bit	C	R	W	-	U	1 bit	

EELECTA KNX TOUCH PANEL

SOFTWARE 3

### SPECIAL FUNCTIONS: TIMERS

Every element(until 40) can be a timer with:
✓Direct commands control
✓Local of communication object managed enable/disable
✓Weekly programmed with 6 daily events for 7 days

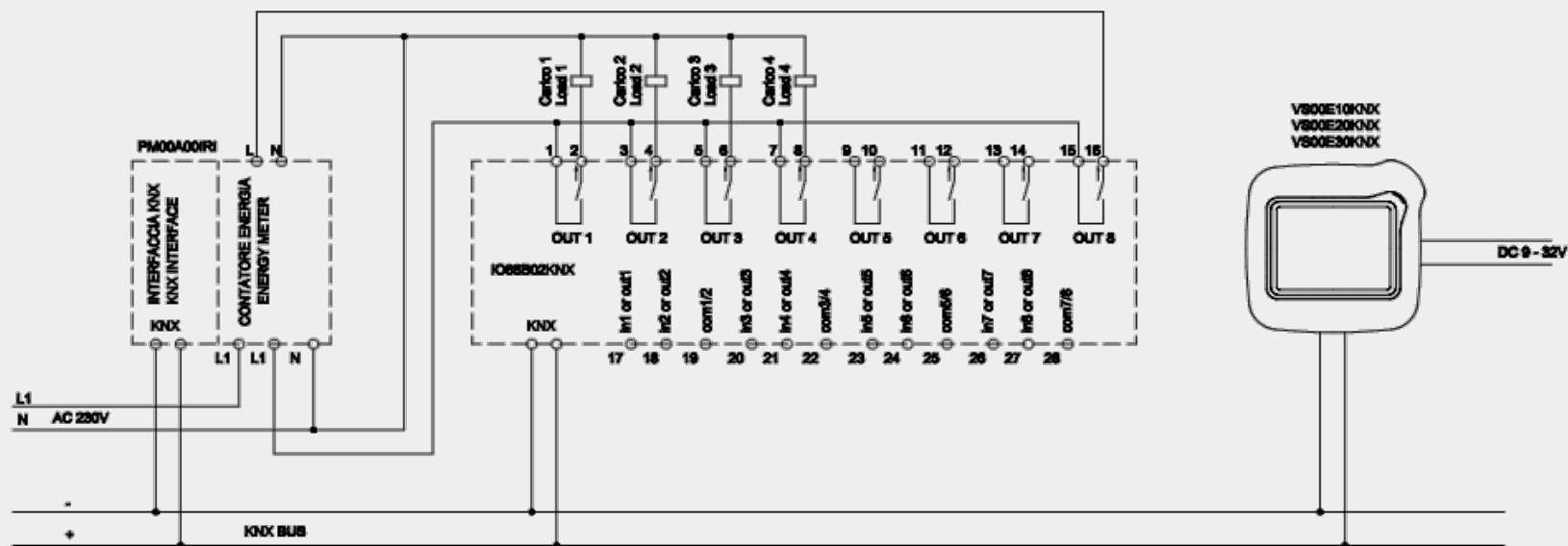| Number	Name	Object Function	Length	C	R	W	T	U	Data Type	G
0	1.1-A Output, Profile	1-Bit Profile	1 bit	C	R	W	T	U	1 bit	
1	1.1-A IO, Profile Enable	Profile	1 bit	C	R	W	T	U	1 bit	
192	System Time	System Time	3 Byte	C	R	-	T	-	Time DPT_TimeOfDay	
193	System Date	System Date	3 Byte	C	R	-	T	-	Date DPT_Date	
194	System Standby	System Standby	1 bit	C	R	W	-	U	1 bit	
195	System LED1	System LED1	1 bit	C	R	W	-	U	1 bit DPT_Switch	
196	System LED2	System LED2	1 bit	C	R	W	-	U	1 bit	
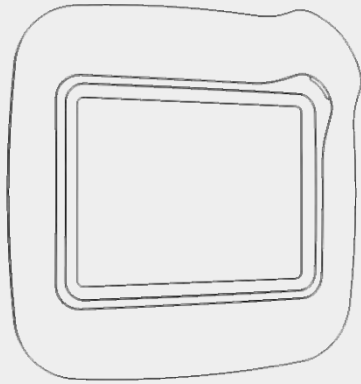
EELECTA KNX TOUCH PANEL

SOFTWARE 4

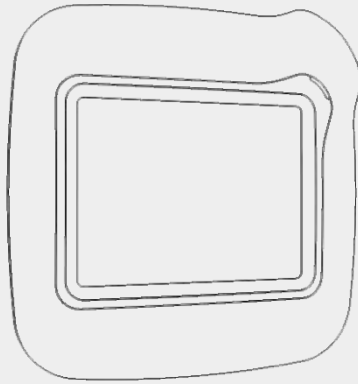LOGICAL FUNCTIONS

➢31 communication objects reserved for logical functions:

           10 → 1-bit objects

           8 → 1-byte objects

           8 → 2-byte objects

           5 → 4-byte objects

➢ Created logics are made with a pseudo programming language and managed as an hidden program and recalled/executed from ETS

➢ Many logics can be charged on the touch but the ETS recall and execute is done on 1 logic.

➢ Today we have LOAD CONTROL LOGIC

LOAD CONTROL – WIRING DIAGRAM – WITH RELAY OUTPUT MODULE AND KNX POWER METER

EELECTA KNX TOUCH PANEL
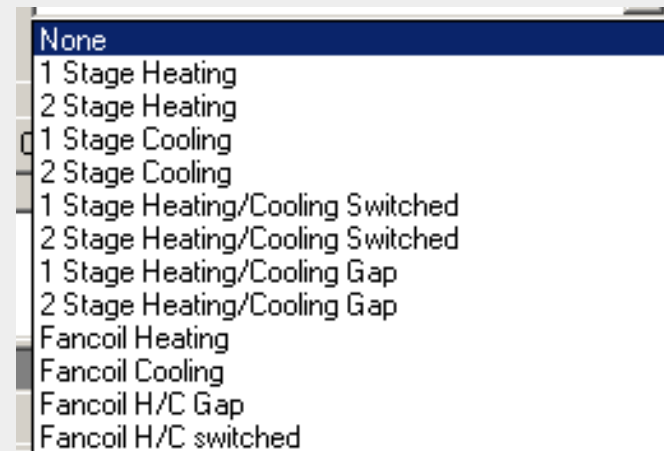
SOFTWARE 5

THERMOSTAT

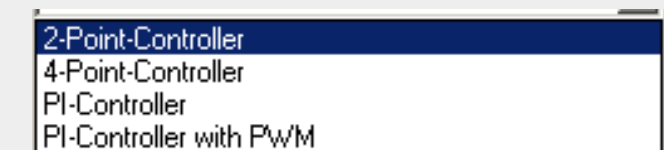→FUNCTIONING MODES

None
1 Stage Heating
2 Stage Heating
1 Stage Cooling
2 Stage Cooling
1 Stage Heating/Cooling Switched
2 Stage Heating/Cooling Switched
1 Stage Heating/Cooling Gap
2 Stage Heating/Cooling Gap
Fancoil Heating
Fancoil Cooling
Fancoil H/C Gap
Fancoil H/C switched

→ALGRORITHMS

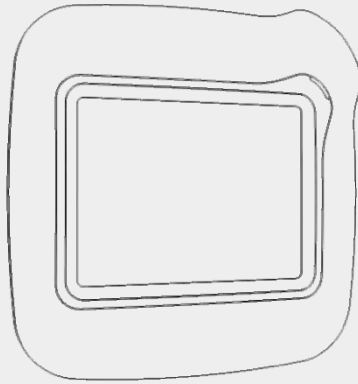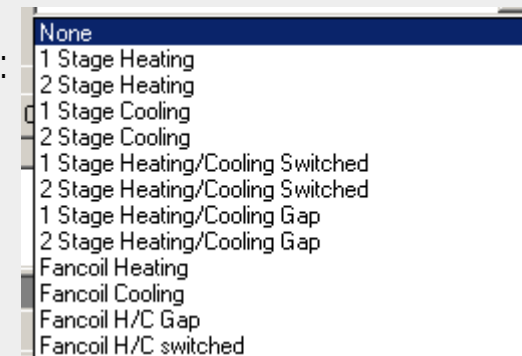| 2-Point-Controller |
|--------------------|
| 4-Point-Controller |
| PI-Controller |
| PI-Controller with PWM |

EELECTA KNX TOUCH PANEL

SOFTWARE 6

FANCOIL CONTROLLING

2 or 4 pipes /3 speed/ heating and cooling:
Just with a 4 or 8 channel module


```
None
1 Stage Heating
2 Stage Heating
1 Stage Cooling
2 Stage Cooling
1 Stage Heating/Cooling Switched
2 Stage Heating/Cooling Switched
1 Stage Heating/Cooling Gap
2 Stage Heating/Cooling Gap
Fancoil Heating
Fancoil Cooling
Fancoil H/C Gap
Fancoil H/C switched
```

EELECTA KNX TOUCH PANEL

PLUS
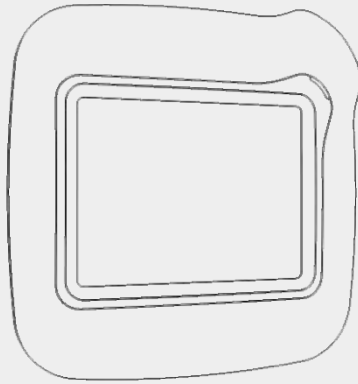
➢DESIGN/PERFORMANCE/PRICE/INSTALLATION FLEXIBILITY: A unique product

➢For all kind of applications: from residential to hotels

➢Temperature sensor embedded: different heating or cooling options are covered, from domestic to complex environment management standards, together with standard touch panels functions

RESIDENTIAL

✓Lights ON/OFF, Dimming, RGB, Scenarios, Shutters.
✓Weekly programming and temperature local and remote management.
✓Load control/tarif control
✓Timer for programmed events
✓Buzzer for alarms
✓Led for signalling
✓User friendly: SCREENSAVERS; PHOTOS

HOSPITALITY

✓Lights ON/OFF, Dimming, RGB, Scenarios, Shutters.
✓1 zone temperature sensor
✓Fancoil controlling
✓Clock and promemoria timer
✓Language management
✓Personalised screensaver
✓Services

KNX ENERGY METER - PM10A01KNX

PM10A01KNX – MONOPHASE ENERGY METER WITH KNX INTERFACE

Digital energy counter with an LCD retroilluminated display. The KNX interface is directly connected to the counter for an immediate counting based on communication (not on a simple pulse counting).
Energy Consumption is metered in KW/h together with instant power.

With an Eelecta touch panel, a load control logic is allowed using every knx actuator.

New rele' multifunction actuator- IO88E01KNX

IO88E01KNX –Advanced 8IN–8 relè OUT

- ✓ Timers on ON and OFF
- ✓ Logical functions
- ✓ Heating valve actuator function
- ✓ Fancoil actuator function
- ✓ Shutter control
- ✓ Combined functions

ALSO AVAILABLE WITH CAPACITIVE LOADS - C

IO88E01KNX 8 IN / 8 OUT MULTIFUNCTION

PLUS

✓Several functions (lights, shutters, fancoil, valves, motors, etc
✓Small size
✓Strong hardware
✓16 a Relays
✓Inputs and Outputs in 1 device
✓Local installation (inwall boxes)
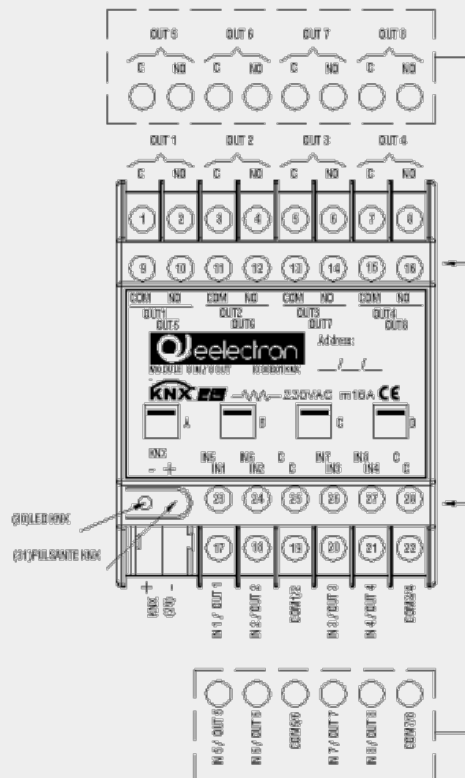
Other infos:

Ets Applications, Manuals,
software demo, catalogues:

www.eelectron.com