

**Panasonic**

**Thea**  
IQ

## GENERAL CATALOGUE

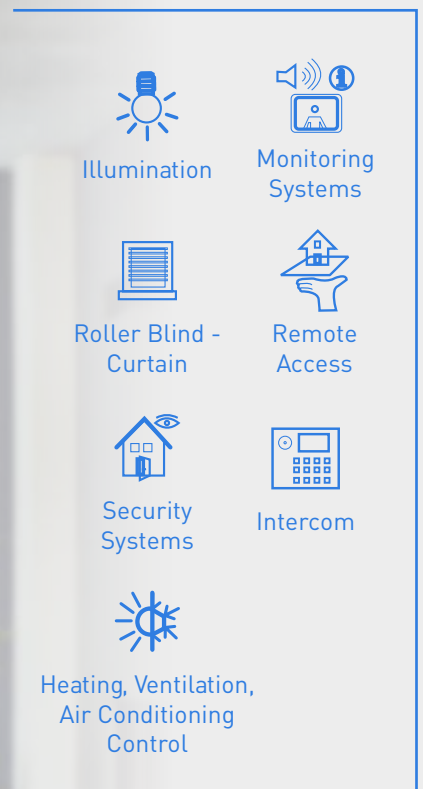


## THEA IQ HOME AUTOMATION SYSTEMS

**KNX**

# Panasonic

- . Thea IQ brings comfort, convenience, and realizes luxurious life.
- . Maximizes the energy efficiency to be eco-friendly to the environment.
- . Gives flexibility to provide safety and to meet various needs.





With its Thea IQ Home Automation Systems, Panasonic continuously develops its range of solutions and products, and manufactures systems in line with KNX, one of the world's open standard for the control in both commercial and residential buildings.

From illumination, air conditioning and blind-shutter control to integration of security systems in a building or flat, Panasonic Thea IQ offers versatile solutions. While the system can be programmed in line with your requirements and the equipment of your building, you can always make additions and modifications in time as per newly arising needs.

Panasonic Thea IQ enables you to control comfort, energy saving, safety and security systems in any kind of building. It can be controlled either fully automatically or if you wish, centrally right from your desk, and even by your smart phone from outdoors.

## User Benefits



### Comfort & Convenience

#### Step into a much smarter life...

Thea IQ combines technology with human touch and realizes more comfortable and convenient life space.

- By pushing the switches, all lights can be turned on and off.
- If you forget to turn the lights off, you are able to turn them off using your smartphone from outside.
- Various types of dimming controls will make your living space more comfortable.
- Time control function can also be realized to turn the lights on/off automatically when the time comes.
- With the presence sensors, lights can be automatically turned on.

### Energy Efficiency

#### What makes a building “smart”?

A smart building is based on consuming the right energy at the right time.

Thea IQ is an eco-friendly system and optimizes and minimizes energy usage.

- Sensors will save energy by turning the light off automatically.
- By setting the thermostat, temperatures are adjusted automatically so that room conditions can be maintained.
- Blind control function can support the temperature change that comes from sun position according to your windows.



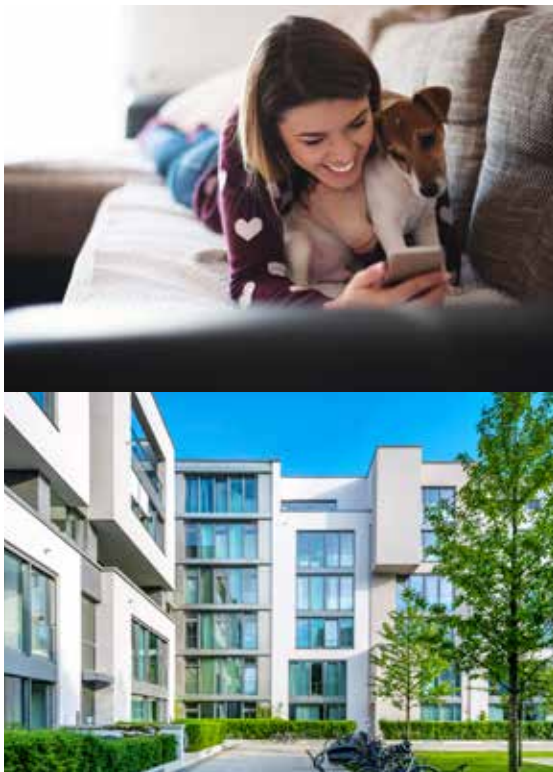
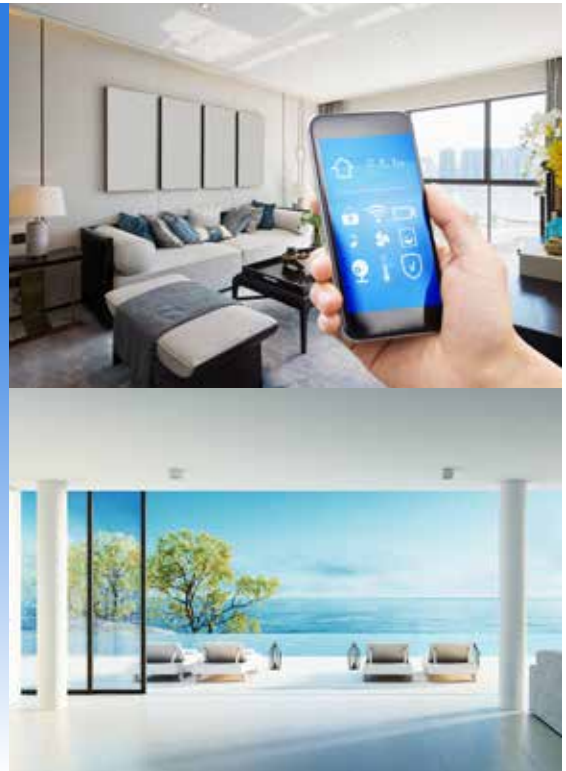


# Luxury

## Beyond Luxury... It's Thea IQ.

Who wouldn't want their home to be more relaxing, peaceful and comfortable? Set your imagination free and meet Thea IQ and its high class atmosphere.

- Variety switch plate matches any kind of living space.
- TheaIQ supports the DALI (Digital Addressable Lighting Interface) to provide flexible lighting fixture control.
- With the interface that you can install in your smart phone or tablets, you may remotely connect to your Thea IQ Touch Panel.



# Security & Flexibility

## Safety is first...

No more "Have I left anything on at home?" worries... Thea IQ will also provide safe and secure environment.

- Stream video of IP camera can be shown on your touch panel. For instance, lobby could be checked from your room.
- If you have an adapted door/window opening sensor, TheaIQ will remind you the door/window still open.
- Sensor also inform you the occurrence of defect like smoke or burglar.

## User Interface

### Now all buildings are smarter with Thea IQ Switches...

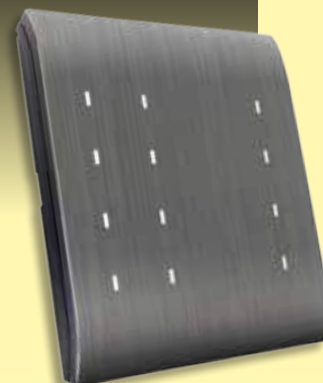
From illumination, air conditioning and blind-shutter control to integration of security systems, Thea IQ offers versatile solutions for residences as well as hotels, school buildings, hospitals and business centers. It can be used in perfect harmony with the enriched colour and frame types of Panasonic Modular Series.



COMING SOON  
NEW KNX MULTI FUNCTIONAL SWITCH



with LCD display



without LCD display



Thermostat with KNX switches  
Inox



KNX switches  
Light green



Red claret



Inox



Black

### Frame

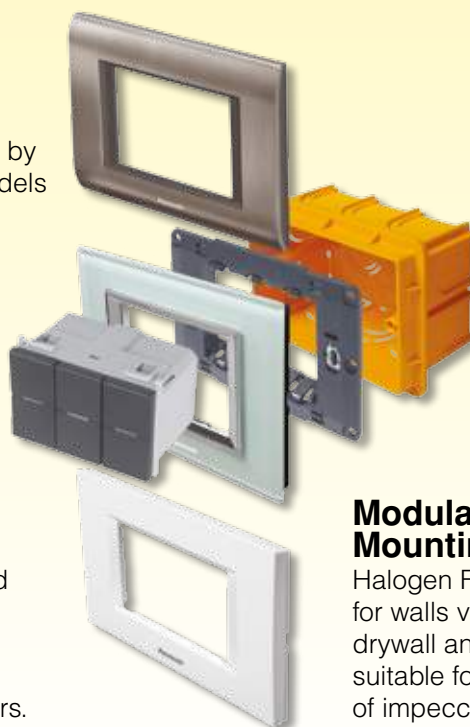
An exclusive and rich range of modular frame options provided by Ultima, Sistema and Optima models steer the decorations.

### Cover Plate / Rocker

Different colored switching modules are distinctively combined in Italian style to appeal to those having a hard time to choose.

### Modular Mechanism

Modular mechanisms developed for switch, socket, TV/DATA, dimmer, electronic products depending on use serve for the maximum satisfaction of the users.



### Modular Wallbox and Mounting Frames

Halogen Free modular boxes suitable for walls varying as concrete and drywall and mounting frames suitable for use draw the borders of impeccability of modular series.

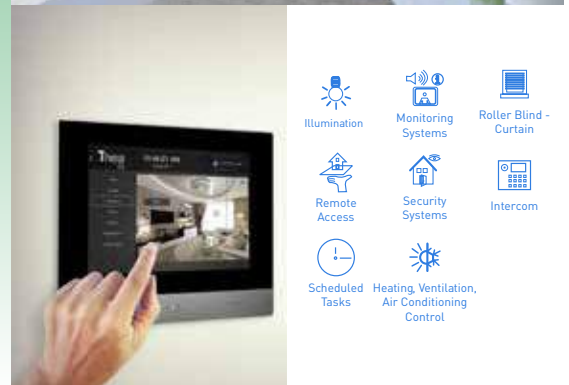
# Thea IQ Touch Panel

## Stylish and functional...

### It's Thea IQ Touch Panel

Everything is at the fingertips with Thea IQ Touch Panel. Thea IQ Touch Panel is designed as wall mounted tablet pc for home automation systems. It allows you to control each point of your home automation system from the interfaces customizable to the user's request. With its interface that you can install in mobile phone or smart tablet, you may remotely connect to your panel, and perform control and imaging.

- KNX devices can be controlled via touch panel
- Connection with CCTV
- Scene control
- Connection with mobile phone and tablet



**COMING SOON**  
NEW THEA IQ TOUCH PANEL



**COMING SOON**  
REMOTE ACCESS CONTROL

# Remote Access

## Everything is under control...

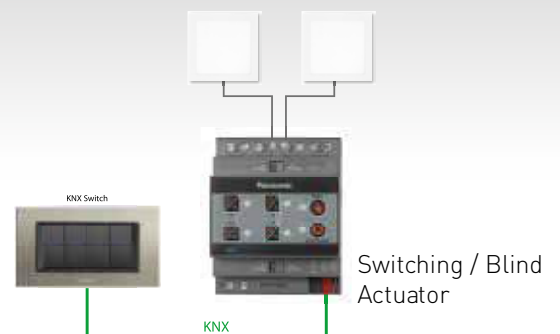
Smartphone can be used as a remote controller to activate lightings, blinds, and HVAC systems. Also access from the outside is possible to turn on/off the lights, as well as controlling HVAC systems to make your return more comfortable than ever.

## Basic Functions



### ALL ON/OFF

All on and off switch allows the user to turn all lights on or off. This can be used especially when you leave your home, and come back from outside.



### DIMMING CONTROL

Several different controlling options can be used to dim the lighting including 1-10V and DALI. A DALI-Gateway serves as the interface between the KNX installation in the building and the digital DALI lighting control system, and therefore unites the two most important building automation standards.





Thea IQ combines technology with human touch...



SCENE LIGHTING

Using lighting scenes in a smart lighting or home automation system simplifies your routine by allowing you to activate multiple settings with one-button.



COMING SOON  
CEILING TYPE PRESENCE DETECTOR

SENSOR & TIMER CONTROL

Sensors and timer control provides energy saving features and automatic control options for lighting control systems.





### Panasonic Thea IQ provides efficient heating/ventilation systems...

#### TEMPERATURE CONTROL OF THE ROOM CAN BE DONE INDIVIDUALLY USING THERMOSTAT

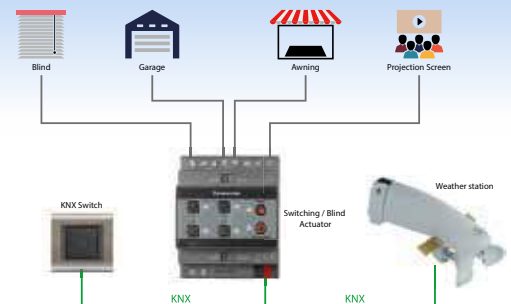
By setting the suitable temperature into your thermostat, thermostat will activate accordingly to control your HVAC (Heating, Ventilation, Air Conditioning) system.

#### PLEASANT VENTILATION

Improves the air quality of the room by activating ventilation using the presence detectors information.

#### SENSOR & TIMER CONTROL

By using the information of the presence detector, weather station, and timer control, your room can be controlled more efficiently under different environments and settings.



## Utilizing the ambient environment, shades and slats are automatically controlled

### CONTROL NATURAL LIGHTING

Roller shutters, blinds, and curtains can be controlled to prevent the room temperature to rise caused by the sunlight. Also by controlling the repositioning of the slats, this could also help decrease the brightness of the natural lighting.

### SCENE CONTROL

Curtain / Shutter control provides comfort with simultaneous control of several engines as well as privacy, security and efficient lighting control. Thanks to Day Mode and Night Mode, the system can be arranged to open and close with sunrise and sunset.

### SENSOR & TIMER CONTROL

By using the information of the presence detector, weather station, and timer control, sun protection can be realized which should make your room more comfortable. Besides, it contributes to energy saving especially in commercial buildings and buildings with glass facade. It prevents the sunlight from entering inside with automated activation of the curtains or sun blinds through the data received from outdoor sensors and ensures that air-conditioners run more efficiently, consume less energy, and decreases the maintenance cost of less-operating cooling systems in long-term.

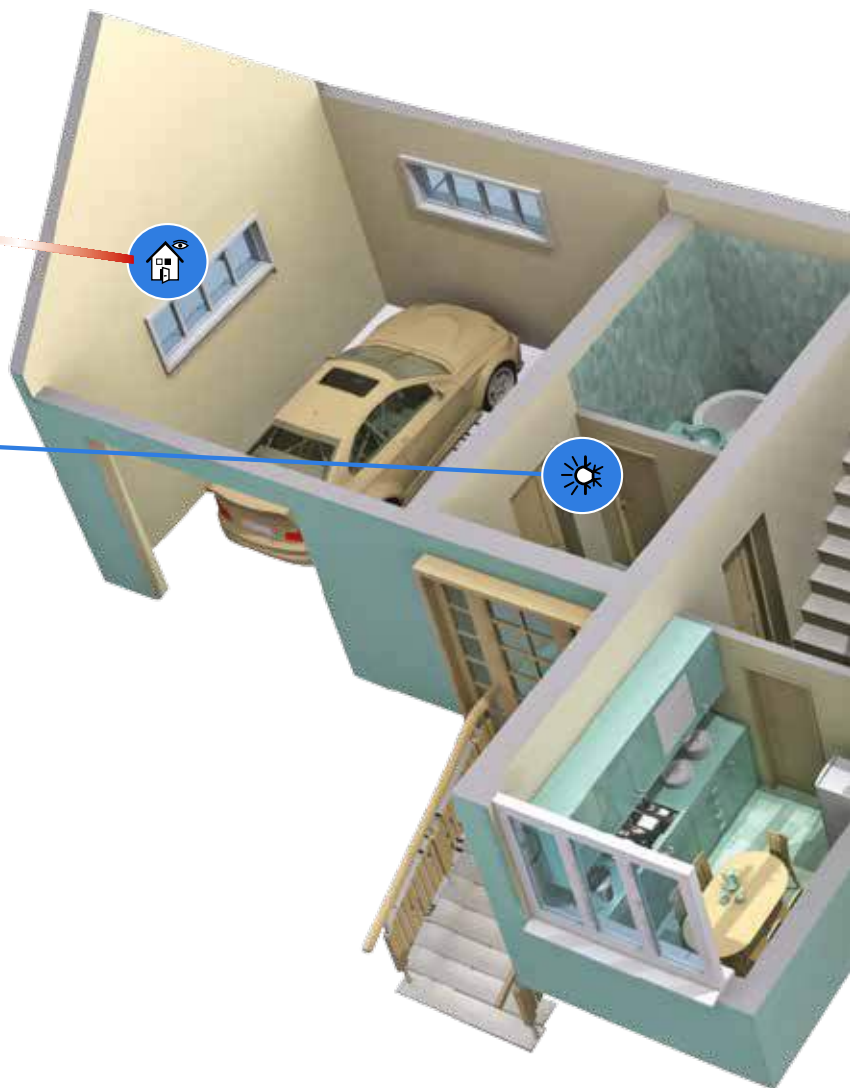
## Create your own world with Panasonic Thea IQ...

### Security

- Connection with CCTV
- Connection with sensor

### HVAC

- Room temperature control
- Pleasant ventilation
- Sensor & timer control



Illumination



Roller Blind -  
Curtain



Security  
Systems



Heating, Ventilation,  
Air Conditioning  
Control

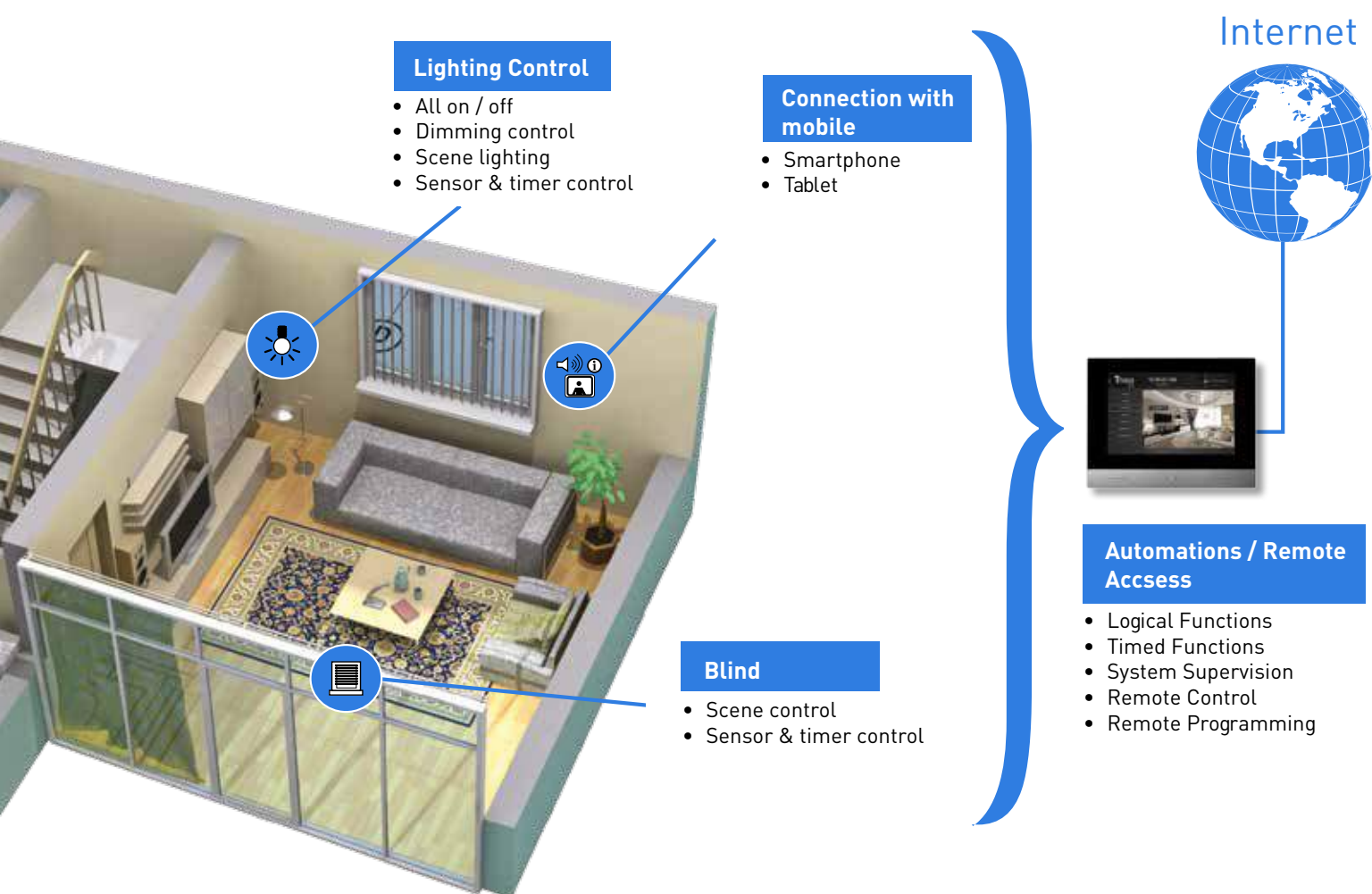


Monitoring  
Systems








Remote Access





Intercom



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## Thea IQ Touch Panel

### Smart Building Functions

#### Manage your smart building remotely if you wish.

In home and office spaces and galleries and general sites, you can centrally manage all of the smart home / smart building / automation functions from a single point. Control points can be located in screen as sketch, picture of the location or grid. Therefore a user-friendly interface provides ease of use for all ages. All of these functions can be utilized even from a distance by your mobile phone.

• Illumination • Dimming • Curtain - Shutter • Thermostat • Alarm - Security

#### Compose your own scenarios.

You can assign smart home functions to a single button, using TheaIQ scenario editor, and activate the scenario with one touch. You can fictionalize time-dependent scenarios. It is possible to compose personal scenarios such as turn off the whole lighting system every evening at 11:30 p.m, turn on garden lightning every evening at 6:00 p.m. and turn off it every morning at 6:30 a.m.



### Camera Display

#### Monitor your cameras instantly.

Images of IP cameras within the same network can be monitored live. After a proper IP configuration, footage can be displayed from your mobile phone or your tablet.

### Alarm and Security

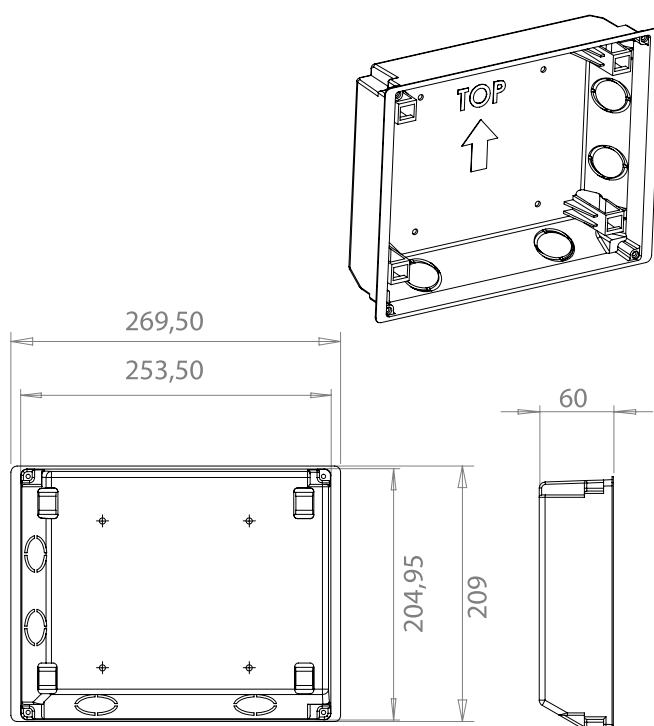
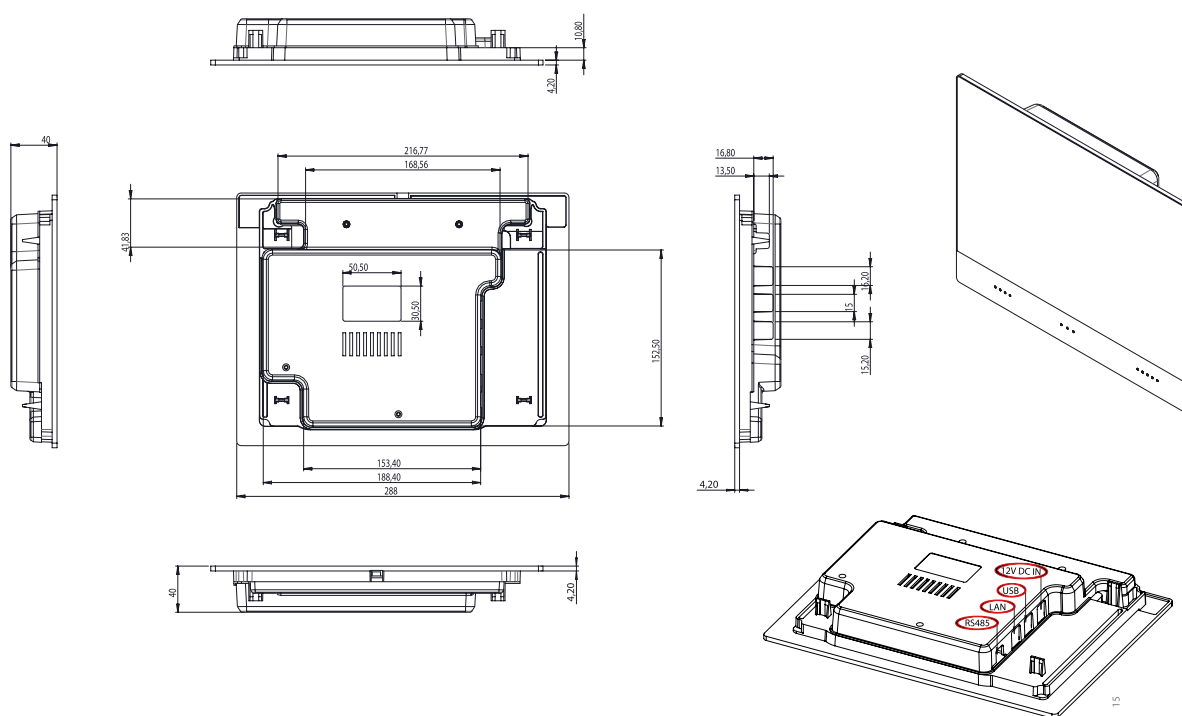
#### Use your own security system.

You can use indefinite security system without fee by adding products such as smoke detector, gas leak detector, flood detector and magnetic gate detector to system. It is possible to activate alarm before leaving home and then deactivate it with your personal password. In case of any alarm, the screen starts to give siren sound and security staff of the housing estate is warned. The relevant settings are sent to your mobile phone or tablet and shared as notification. In case of a proper configuration in your system, electricity, gas and water can be cut automatically. Past alarm notifications are recorded and can be monitored.





## DIMENSIONS



Wall Mounting Box

## TECHNICAL DATA

Operating voltage	12 – 30 DC
Power Consumption	6.5W, 600mAh
Processor	Quad-core Rockchip, the highest frequency 1.26HZ
Memory	1GB DDR3 RAM
Screen	1280 x 800 IPS Screen 300 Cd/m2.
Interfaces	Ethernet / Wi-Fi, RS-485, 1xUSB Host
Front Unit	10" – 0.45cm
Resolution (in Pixel)	1280 x 3(RGB) x 800
Method of operating	Capacitive Multi Touch
Acceptable temperature	-20°C ... +65°C
Speaker/ Amplifier	8 ohm, 2W 2*Speaker Stereo

## TOUCH PANEL Master IO

### KNX Master Module



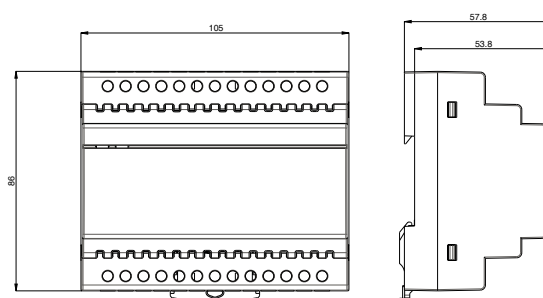
### ■ MAIN FEATURES

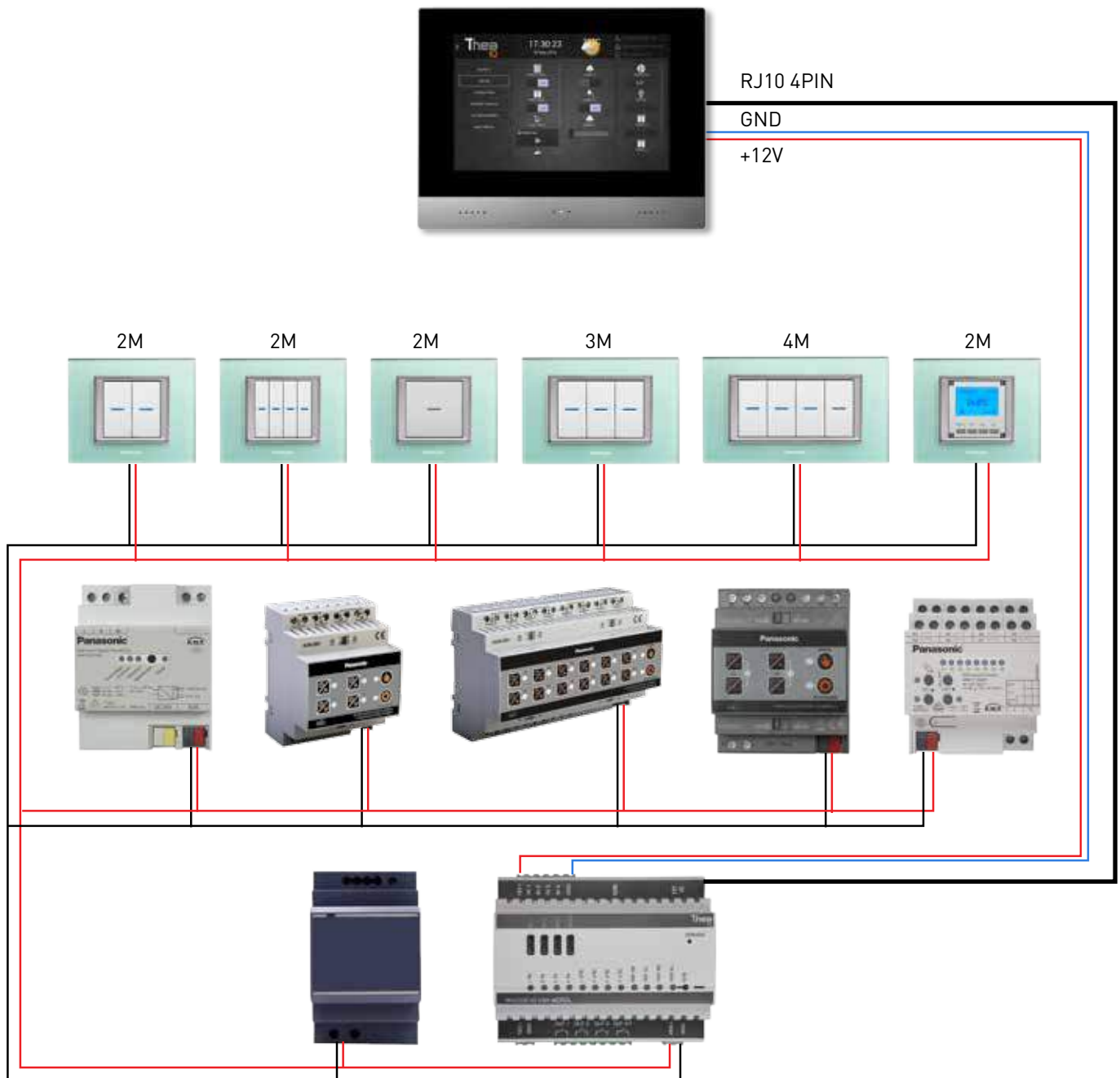
KNX Master Gateway converter is designed to convert RS485 to KNX/EIB for a smart home control system. It is full duplex and two-way communication (transfer and receive function work together). Through the KNX/EIB RS485 converter to connect the 485 bus system with the EIB bus system into a whole. The device on the 485 bus sends a telegram to converter according to the predefined protocol, and then the converter will the telegram convert to KNX/EIB telegram that can be sent on the EIB bus, so that the 485 device can control the KNX device on the EIB bus. It provides four digital input channels for smoke detector, fire/gas sensor, flash flood etc. However, there are four outputs to control the solenoid valves in the heating and cooling systems and cut the general energy. Via the push switches present on the device, the load connected to outputs can be controlled. This manual control has priority over the commands from the bus KNX. The button led indicates the status of the outputs. When the green led is on, the output relays are closed.

### ■ TECHNICAL DATA

Operating Voltage	9-15V DC
Current	Min 0,15A - Max 0,55A
Power Consumption	1,5 W
Communication Protocol	RS485 Full Duplex
KNX Operating Current	15mAh
RS485 Connection Point	Rj45 Socket - 4 pin
Input	4 Input
Input(V)	12...24 VDC (Isolated)
KNX Connection	Native and Isolated
Reverse Power Protection	True
Type of Protection	IP20 - DIN Rail Mounted
Temperature Range	Operation: -10 ... +75 °C Storage: -25...+100 °C

### ■ DIMENSIONS









# SWITCH



## Modular



## SWITCH Push Buttons

### KNX Modular Switches

#### KNX Modular Switch 1 Gang-2M



#### KNX Modular Switch 2 Gang-2M



#### KNX Modular Switch 3 Gang-3M



### MAIN FEATURES

- For operating switching, dimming, blinds and recall/save light scene functions individually
- Can be used to send temperature, priority, percentage, HVAC operation mode value
- Scene functions can be saved by pressing 3–4 seconds if fold is programmed as recall/save light scene
- Setting of desired behaviour via long and short key depression is possible
- With LED status indication

- Can be located into all frames of Thea Modular Series; Optima, Sistema and Ultima

### FUNCTIONS

- Switching
- Dimming
- Blind control
- Recall/save light scene

### TECHNICAL DATA

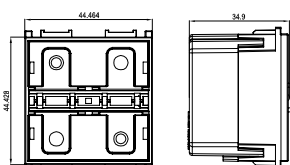
	2x1/1GANG 4x2/2GANG 6x3/3GANG
Operating voltage KNX	Bus voltage (<10 mA)
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

### PRODUCT CODES

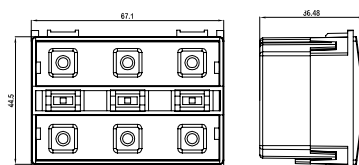
PRODUCT	PRODUCT CODES
KNX Modular Switch 1 Gang-2M	WRKT61215NC
KNX Modular Switch 2 Gang-2M	WRKT61225NC
KNX Modular Switch 3 Gang-3M	WRKT61335NC

### DIMENSIONS

1 GANG (2M) / 2 GANG (2M)



3 GANG (3M)



## SWITCH Push Buttons

### KNX Modular Switches

#### KNX Modular Switch 4 Gang-2M



#### KNX Modular Switch 4 Gang-4M



#### ■ MAIN FEATURES

- For operating switching, dimming, blinds and recall/save light scene functions individually
- Can be used to send temperature, priority, percentage, HVAC operation mode value
- Scene functions can be saved by pressing 3-4 seconds if fold is programmed as recall/save light scene
- Setting of desired behaviour via long and short key depression is possible
- With LED status indication

- Can be located into all frames of Thea Modular Series; Optima, Sistema and Ultima

#### ■ FUNCTIONS

- Switching
- Dimming
- Blind control
- Recall/save light scene

#### ■ TECHNICAL DATA

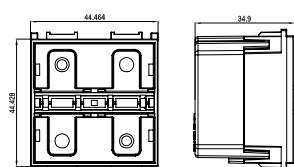
	TSA 8x4 (2M)	TSA 8x4 (4M)
Operating voltage KNX	Bus voltage (<10 mA)	
Ambient temperature	-5°C ... +45°C	
Protection rating	IP20	

#### ■ PRODUCT CODES

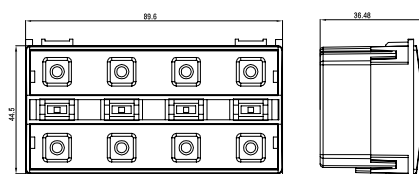
PRODUCT	PRODUCT CODES
KNX Modular Switch 2 Gang-4M	WRKT61245NC
KNX Modular Switch 4 Gang-4M	WRKT61445NC

#### ■ DIMENSIONS

4 GANG [2M]



4 GANG [4M]



## SWITCH

### Frame and Cover Color Alternatives

#### Optima



#### Optima Color Alternatives

##### OPAQUE



OPAQUE  
WHITE



BEIGE

##### METALLIC



METALLIC  
WHITE



BLACK



DARK GRAY



ANTHRACITE



DORE

#### Frame Alternatives



2M



2/3M



3M



4M



7M



2x2M



3x2M



4x2M



## SWITCH Push Buttons

### Product Codes

#### ■ OPTIMA FRAMES PRODUCT CODES

COVER COLOR	2M FRAME	2/3M FRAME	3M FRAME	4M FRAME	7M FRAME
Anthracite	WVTF0840-1AN	WVTF0842-1AN	WVTF0843-1AN	WVTF0844-1AN	WVTF0847-1AN
Dore	WVTF0840-1DR	WVTF0842-1DR	WVTF0843-1DR	WVTF0844-1DR	WVTF0847-1DR
Dark Gray	WVTF0840-1DG	WVTF0842-1DG	WVTF0843-1DG	WVTF0844-1DG	WVTF0847-1DG
Beige	WVTF0840-1BG	WVTF0842-1BG	WVTF0843-1BG	WVTF0844-1BG	WVTF0847-1BG
Metallic White	WVTF0840-1MW	WVTF0842-1MW	WVTF0843-1MW	WVTF0844-1MW	WVTF0847-1MW
Opaque White	WVTF0840-1WH	WVTF0842-1WH	WVTF0843-1WH	WVTF0844-1WH	WVTF0847-1WH
Black	WVTF0840-1BL	WVTF0842-1BL	WVTF0843-1BL	WVTF0844-1BL	WVTF0847-1BL

COVER COLOR	2x2M FRAME	3x2M FRAME	4x2M FRAME
Anthracite	WVTF0848-1AN	WVTF0849-1AN	WVTF0850-1AN
Dore	WVTF0848-1DR	WVTF0849-1DR	WVTF0850-1DR
Dark Gray	WVTF0848-1DG	WVTF0849-1DG	WVTF0850-1DG
Beige	WVTF0848-1BG	WVTF0849-1BG	WVTF0850-1BG
Metallic White	WVTF0848-1MW	WVTF0849-1MW	WVTF0850-1MW
Opaque White	WVTF0848-1WH	WVTF0849-1WH	WVTF0850-1WH
Black	WVTF0848-1BL	WVTF0849-1BL	WVTF0850-1BL

## SWITCH Frame and Cover Color Alternatives

### Sistema



### Sistema Color Alternatives

#### METALLIC



INOX

INOX MATT

CHROME

CHROME  
MATT

UNA

ANTIQUE

GOLD

### Frame Alternatives



2M

3M

4M

7M



2x2M

3x2M

4x2M

## SWITCH

### Frame and Cover Color Alternatives

#### Product Codes

#### ■ SISTEMA FRAMES PRODUCT CODES

FRAME COLOR	2M FRAME	3M FRAME	4M FRAME	7M FRAME
Antique - Dore	WVTF1840-5AQ	WVTF1843-5AQ	WVTF1844-5AQ	WVTF1847-5AQ
Antique - Black	WVTF1840-5AY	WVTF1843-5AY	WVTF1844-5AY	WVTF1847-5AY
Chrome - Dark Gray	WVTF1840-5KF	WVTF1843-5KF	WVTF1844-5KF	WVTF1847-5KF
Chrome - Metallic White	WVTF1840-5CH	WVTF1843-5CH	WVTF1844-5CH	WVTF1847-5CH
Chrome Matt - Dark Gray	WVTF1840-5KD	WVTF1843-5KD	WVTF1844-5KD	WVTF1847-5KD
Chrome Matt - Metallic White	WVTF1840-5CM	WVTF1843-5CM	WVTF1844-5CM	WVTF1847-5CM
Gold - Dore	WVTF1840-5GL	WVTF1843-5GL	WVTF1844-5GL	WVTF1847-5GL
Gold - Black	WVTF1840-5GS	WVTF1843-5GS	WVTF1844-5GS	WVTF1847-5GS
Inox - Dark Gray	WVTF1840-5IG	WVTF1843-5IG	WVTF1844-5IG	WVTF1847-5IG
Inox - Metallic White	WVTF1840-5IN	WVTF1843-5IN	WVTF1844-5IN	WVTF1847-5IN
Inox Matt - Dore	WVTF1840-5IM	WVTF1843-5IM	WVTF1844-5IM	WVTF1847-5IM
Inox Matt - Metallic White	WVTF1840-5IB	WVTF1843-5IB	WVTF1844-5IB	WVTF1847-5IB
Una - Dark Gray	WVTF1840-5UN	WVTF1843-5UN	WVTF1844-5UN	WVTF1847-5UN
Una - Metallic White	WVTF1840-5UW	WVTF1843-5UW	WVTF1844-5UW	WVTF1847-5UW

FRAME COLOR	2x2M FRAME	3x2M FRAME	4x2M FRAME
Antique - Dore	WVTF1848-5AQ	WVTF1849-5AQ	WVTF1850-5AQ
Antique - Black	WVTF1848-5AY	WVTF1849-5AY	WVTF1850-5AY
Chrome - Dark Gray	WVTF1848-5KF	WVTF1849-5KF	WVTF1850-5KF
Chrome - Metallic White	WVTF1848-5CH	WVTF1849-5CH	WVTF1850-5CH
Chrome Matt - Dark Gray	WVTF1848-5KD	WVTF1849-5KD	WVTF1850-5KD
Chrome Matt - Metallic White	WVTF1848-5CM	WVTF1849-5CM	WVTF1850-5CM
Gold - Dore	WVTF1848-5GL	WVTF1849-5GL	WVTF1850-5GL
Gold - Black	WVTF1848-5GS	WVTF1849-5GS	WVTF1850-5GS
Inox - Dark Gray	WVTF1848-5IG	WVTF1849-5IG	WVTF1850-5IG
Inox - Metallic White	WVTF1848-5IN	WVTF1849-5IN	WVTF1850-5IN
Inox Matt - Dore	WVTF1848-5IM	WVTF1849-5IM	WVTF1850-5IM
Inox Matt - Metallic White	WVTF1848-5IB	WVTF1849-5IB	WVTF18450-5IB
Una - Dark Gray	WVTF1848-5UN	WVTF1849-5UN	WVTF1850-5UN
Una - Metallic White	WVTF1848-5UW	WVTF1849-5UW	WVTF1850-5UW

## SWITCH Frame and Cover Color Alternatives

### Ultima



### Ultima Color Alternatives

#### METALLIC



INOX

CHROME

GOLD

UNA

#### ELOXAL



SILVER

BRONZE

BLACK

#### GLASS



WHITE

LIGHT  
GREEN

CLARET  
RED

BLACK

#### WOOD



BAMBOO

WENGE

WALNUT

### Frame Alternatives



2M

2/3M

3M

4M

7M



2x2M

3x2M

4x2M

## SWITCH

### Frame and Cover Color Alternatives

#### Product Codes

#### ■ ULTIMA FRAMES PRODUCT CODES

FRAME COLOR	2M FRAME	2/3M FRAME	3M FRAME	4M FRAME	7M FRAME
WOOD - Walnut	WVTF2840-5WW	WVTF2842-5WW	WVTF2843-5WW	WVTF2844-5WW	WVTF2847-5WW
WOOD - Wenge	WVTF2840-5WV	WVTF2842-5WV	WVTF2843-5WV	WVTF2844-5WV	WVTF2847-5WV
WOOD - Bamboo	WVTF2840-5WB	WVTF2842-5WB	WVTF2843-5WB	WVTF2844-5WB	WVTF2847-5WB
ELOXAL - Silver	WVTF2840-5AS	WVTF2842-5AS	WVTF2843-5AS	WVTF2844-5AS	WVTF2847-5AS
ELOXAL - Bronze	WVTF2840-5AR	WVTF2842-5AR	WVTF2843-5AR	WVTF2844-5AR	WVTF2847-5AR
ELOXAL - Black	WVTF2840-5AB	WVTF2842-5AB	WVTF2843-5AB	WVTF2844-5AB	WVTF2847-5AB
GLASS - White	WVTF2840-5GW	WVTF2842-5GW	WVTF2843-5GW	WVTF2844-5GW	WVTF2847-5GW
GLASS - Light Green	WVTF2840-5GG	WVTF2842-5GG	WVTF2843-5GG	WVTF2844-5GG	WVTF2847-5GG
GLASS - Claret Red	WVTF2840-5GC	WVTF2842-5GC	WVTF2843-5GC	WVTF2844-5GC	WVTF2847-5GC
GLASS - Black	WVTF2840-5GB	WVTF2842-5GB	WVTF2843-5GB	WVTF2844-5GB	WVTF2847-5GB
METALLIC - Chrome	WVTF2840-5MC	WVTF2842-5MC	WVTF2843-5MC	WVTF2844-5MC	WVTF2847-5MC
METALLIC - Inox	WVTF2840-5MI	WVTF2842-5MI	WVTF2843-5MI	WVTF2844-5MI	WVTF2847-5MI
METALLIC - Gold	WVTF2840-5MG	WVTF2842-5MG	WVTF2843-5MG	WVTF2844-5MG	WVTF2847-5MG
METALLIC - Una	WVTF2840-5MU	WVTF2842-5MU	WVTF2843-5MU	WVTF2844-5MU	WVTF2847-5MU

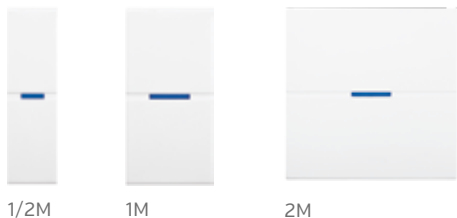
FRAME COLOR	2x2M FRAME	3x2M FRAME	4x2M FRAME
WOOD - Walnut	WVTF2848-5WW	WVTF2849-5WW	WVTF2850-5WW
WOOD - Wenge	WVTF2848-5WV	WVTF2849-5WV	WVTF2850-5WV
WOOD - Bamboo	WVTF2848-5WB	WVTF2849-5WB	WVTF2850-5WB
ELOXAL - Silver	WVTF2848-5AS	WVTF2849-5AS	WVTF2850-5AS
ELOXAL - Bronze	WVTF2848-5AR	WVTF2849-5AR	WVTF2850-5AR
ELOXAL - Black	WVTF2848-5AB	WVTF2849-5AB	WVTF2850-5AB
GLASS - White	WVTF2848-5GW	WVTF2849-5GW	WVTF2850-5GW
GLASS - Light Green	WVTF2848-5GG	WVTF2849-5GG	WVTF2850-5GG
GLASS - Claret Red	WVTF2848-5GC	WVTF2849-5GC	WVTF2850-5GC
GLASS - Black	WVTF2848-5GB	WVTF2849-5GB	WVTF2850-5GB
METALLIC - Chrome	WVTF2848-5MC	WVTF2849-5MC	WVTF2850-5MC
METALLIC - Inox	WVTF2848-5MI	WVTF2849-5MI	WVTF2850-5MI
METALLIC - Gold	WVTF2848-5MG	WVTF2849-5MG	WVTF2850-5MG
METALLIC - Una	WVTF2840-5MU	WVTF2843-5MU	WVTF2850-5MU



## ACCESSORIES

### Color Alternatives

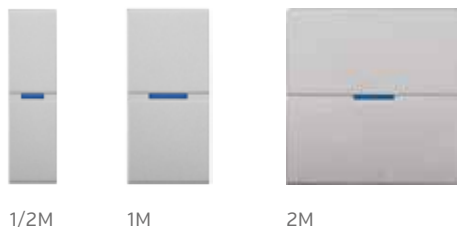
#### ■ WHITE



#### ■ BEIGE



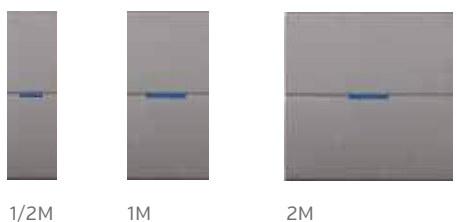
#### ■ METALLIC WHITE



#### ■ DORE



#### ■ ANTHRACITE



#### ■ DARK GRAY



#### ■ BLACK



### Full Range



## ACCESSORIES

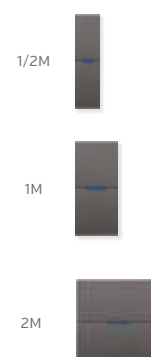
### Plastic Button Cover Pcs Table

KNX MODULAR SWITCH			PLASTIC BUTTON COVER		
			1/2M WRKT81004XX	1M WRKT81014XX	2M WRKT81024XX
2M	1 Gang	WRKT61215NC			1 pcs
2M	2 Gang	WRKT61225NC		2 pcs	
3M	3 Gang	WRKT61335NC		3 pcs	
2M	4 Gang	WRKT61245NC	4 pcs		
4M	4 Gang	WRKT61445NC		4 pcs	

COLOR CODE	
XX	EXPLANATION
WH	WHITE
MW	METALLIC WHITE
BG	BEIGE
DR	DORE
AN	ANTHRACITE
DG	DARK GRAY
BL	BLACK

### ■ BUTTON COVER PRODUCT CODES

COVER COLOR	1/2 M	1M	2M
White	WRKT81004WH	WRKT81014WH	WRKT81024WH
Beige	WRKT81004MW	WRKT81014MW	WRKT81024BG
Metallic White	WRKT81004BG	WRKT81014BG	WRKT81024MW
Dark Gray	WRKT81004DG	WRKT81014DG	WRKT81024DG
Dore	WRKT81004DR	WRKT81014DR	WRKT81024DR
Anthracite	WRKT81004AN	WRKT81014AN	WRKT81024AN
Black	WRKT81004BL	WRKT81014BL	WRKT81024BL



## ACCESSORIES

### Using Mechanism and Button Cover

2x1 / 1 GANG [2M]  
**WRKT61215NC**



2M  
**WRKT81024XX**



x1

4x2 / 2 GANG [2M]  
**WRKT61225NC**



1M  
**WRKT81014XX**



x2

8x4 / 4 GANG [2M]  
**WRKT61245NC**



1/2M  
**WRKT81004XX**



x4

6x3 / 3 GANG [3M]  
**WRKT61335NC**



1M  
**WRKT81014XX**



x3

8x4 / 4 GANG [4M]  
**WRKT61445NC**



1M  
**WRKT81014XX**



x4

## ACCESSORIES

### Mounting Frames

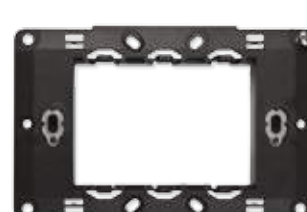
2M MOUNTING FRAMES



2/3M MOUNTING FRAME



3M MOUNTING FRAME



4M MOUNTING FRAME



7M MOUNTING FRAME



### ■ MOUNTING FRAMES PRODUCT CODES

PRODUCT	2M	2/3M	3M	4M	7M
Mounting Frame Metal	WVTC0732-4NC	WVTC0734-4NC	WVTC0734-4NC	WVTC0735-4NC	WVTC0736-4NC
Mounting Frame (With Claw)	WVTC0730-4NC	WVTC0737-4NC			
Mounting Frame (Ultima)	WVTC0731-4NC				

### ■ BOXES PRODUCT CODES

PRODUCT	2M	3M	4M	7M
Modular Box, Flush Mount	WVTC0780-4NC	WVTC0781-4NC	WVTC0782-4NC	WVTC0783-4NC
Modular Box, for Plasterboard	WVTC0784-4NC	WVTC0785-4NC	WVTC0786-4NC	WVTC0787-4NC

## ACCESSORIES Norm

### Mounting Boxes

2M MOUNTING BOX



2M HOLLOW WALL BOX



2M HOLLOW WALL BOX



3M MOUNTING BOX



3M HOLLOW WALL BOX



4M MOUNTING BOX



4M HOLLOW WALL BOX



7M MOUNTING BOX



7M HOLLOW WALL BOX



2M M.BOX



2X2M M.BOX



3X2M M.BOX



4X2M M.BOX



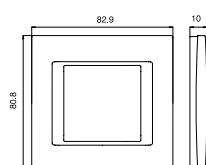


## TECHNICAL INFORMATION

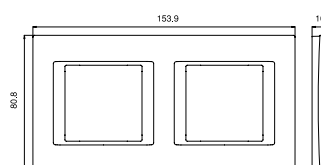
### Frames

#### Frame Dimensions

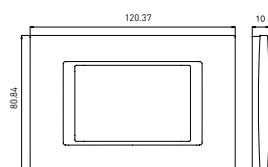
##### ■ OPTIMA FRAMES



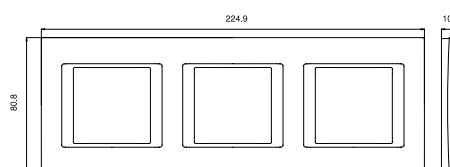
2M



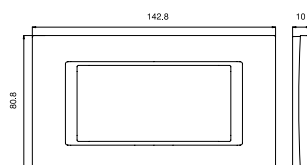
2x2M



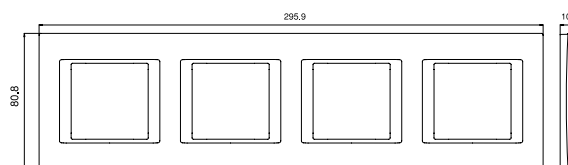
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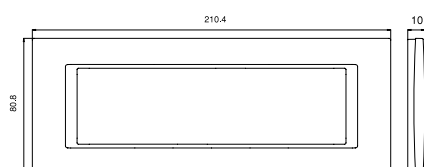
3x2M



4M



4x2M

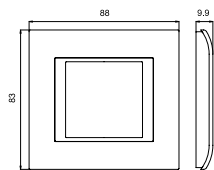


7M

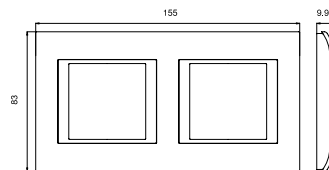
## TECHNICAL INFORMATION Frames

### Frame Dimensions

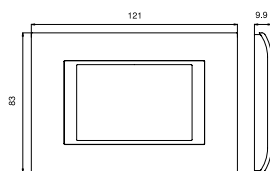
#### ■ SISTEMA FRAMES



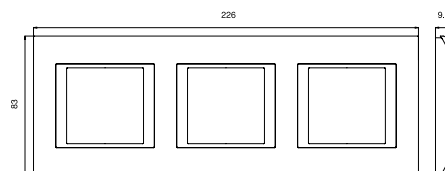
2M



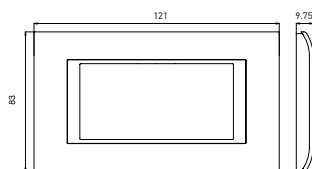
2x2M



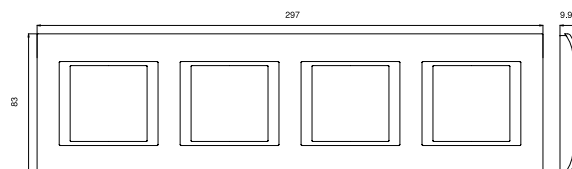
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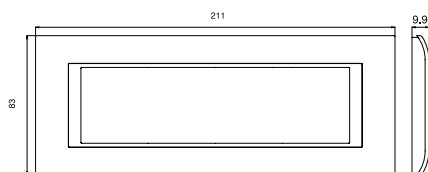
3x2M



4M



4x2M

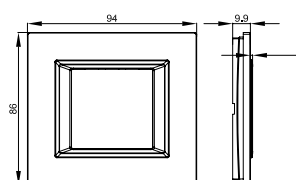


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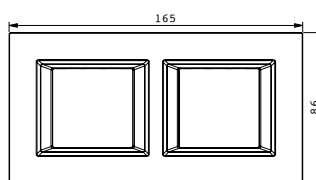
## TECHNICAL INFORMATION Frames

### Frame Dimensions

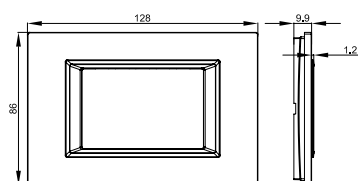
#### ■ ULTIMA FRAMES



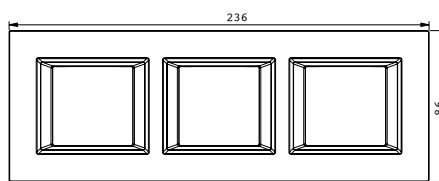
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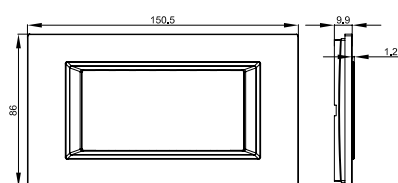
2x2M



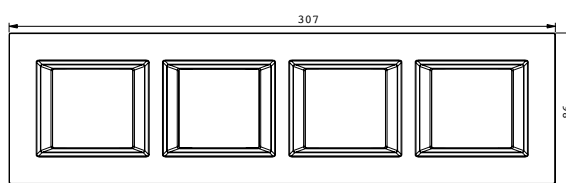
3M



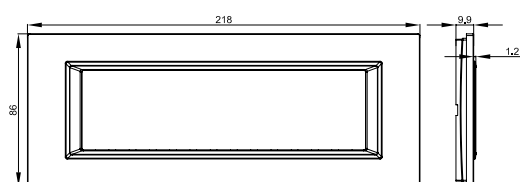
3x2M



4M



4x2M

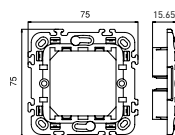


7M

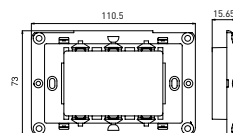
## TECHNICAL INFORMATION Accessories

### Mounting Frame Dimensions

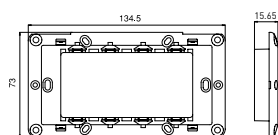
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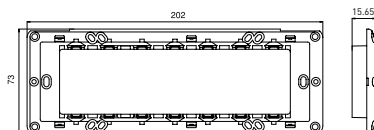
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4M



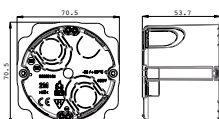
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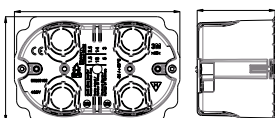
### Wall Box Dimensions

#### ■ HALLOW WALL MOUNT

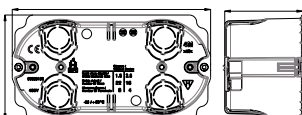
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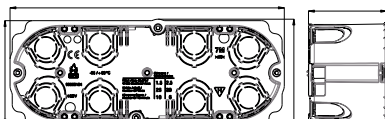
3M



4M

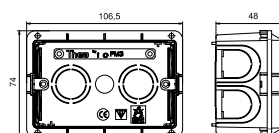


7M

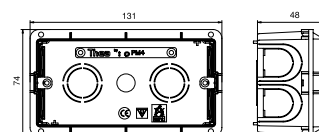


#### ■ WALL MOUNT

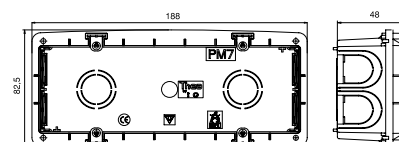
3M



4M



7M

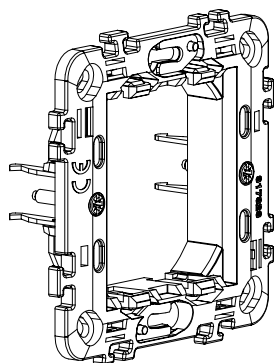




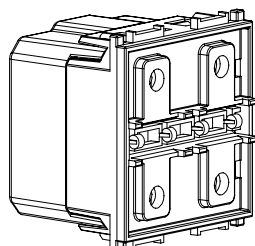


## TECHNICAL INFORMATION Modular

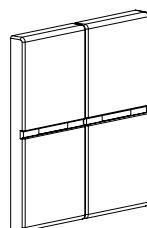
### Mounting Modular



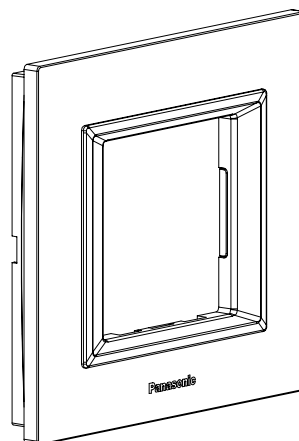
Boxes



Mounting Frames



Buttons



Frames

3M



4M



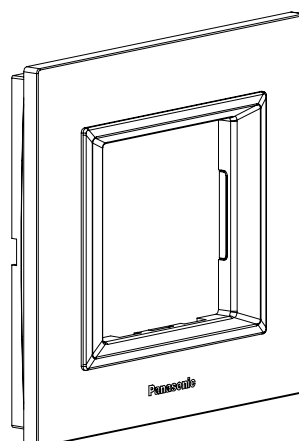
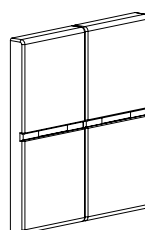
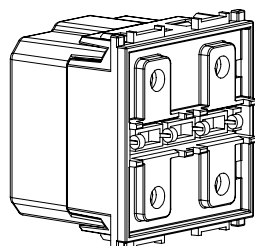
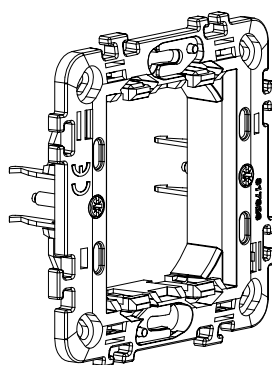
7M



## TECHNICAL INFORMATION

### Norm

#### Mounting Norm



Boxes

Mounting Frames

Buttons

Frames

2M



2x2M



3x2M



4x2M





## SWITCHES - COMING SOON

### KNX Multi Functional Switch

KNX Multi Functional Switch [LCD Display]



KNX Multi Functional Switch [No Display]



#### ■ MAIN FEATURES

- Product has 6 different variants.
- 4 Gang with LCD
- 4 Gang without LCD
- Product has capacitive touch buttons with sound feedback.
- Every gang has 3 functional touch buttons.
- There is an extra touch buttons for thermostat (with LCD version) settings.
- LCD has black background with white backlight.
- LCD is a custom designed. Custom symbols designed by Industrial designer.

#### ■ FUNCTIONAL SPECIFICATIONS

1. Switching
2. Thermostat
  - Heating and cooling control
  - Push Button
  - Switching
  - Dimming
  - Shutter/Blind control
  - Scene activation
3. Scene actuator

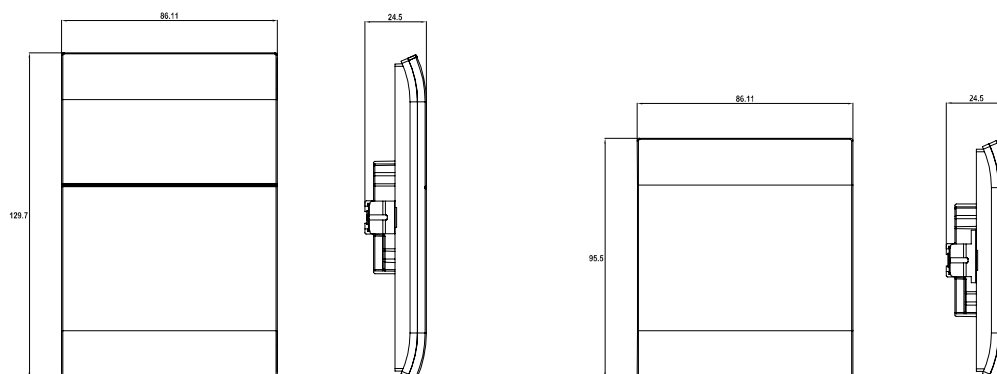
#### ■ TECHNICAL DATA

	FA	D-FA
Supply voltage	21 ... 32 V DC	
Operating temperature	-5 °C... + 45 °C	
Type of protection	IP 20	
Safety class	III	
Temp. measuring range	0 °C ... + 40 °C	

#### ■ PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX Multi Functional Switch 4 Gang MS104 FA	WRKT62045FA
KNX Multi Functional Switch 4 Gang MS104-D FA	WRKT62145FA

#### ■ DIMENSIONS







# POWER SUPPLY & INTERFACE



Power Supply



Interface

## POWER SUPPLY & INTERFACE Power Supply Units

### KNX Power Supply Units

#### KNX Power Supply Unit 640mA



#### KNX Power Supply Unit 320mA



### ■ MAIN FEATURES

- For supplying KNX devices with bus voltage
- One non-choked and one choked output each.
- The non-choked output can be used for the supply of another line or for function devices (smart sensor etc.) which require an auxiliary voltage
- A KNX bus line can be supplied from two power supply units. There must be at least 200m of bus line between the infeed points

- Nominal voltage can be subdivided to outputs (choked or nonchoked) as desired.
- With reset switch for bus lines
- With short circuit protection
- With overvoltage protection

### ■ STATUS DISPLAY

LED display, red: bus reset  
LED display, yellow: overvoltage  
LED display, red: overload  
LED display, green: operation

### ■ TECHNICAL DATA

	PSU 640	PSU 320
Operating voltage AC	230VAC 50/60Hz	
Operating voltage DC	240-250V DC	
Power loss	5W max.	
Dimensions	4 modules	4 modules
Output current	640mA	320mA
Output voltage	30V DC	
Ambient temperature	-5°C ... +45°C	
Protection rating	IP20	

### ■ PRODUCT CODES

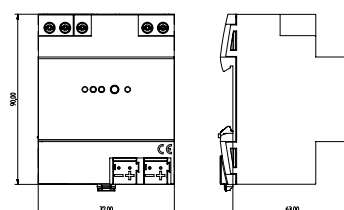
PRODUCT	PRODUCT CODES
KNX Power Supply 640mA	WRKT20275NC
KNX Power Supply 320mA	WRKT20145NC

### ■ CONNECTION

KNX Power Supply Unit



### ■ DIMENSIONS



## POWER SUPPLY & INTERFACE

### Line Coupler

#### KNX Area / Line Coupler



#### ■ MAIN FEATURES

- For connecting two KNX/EIB data lines and ensuring the electrical separation of these lines from one another
- Can be used as an area or a line coupler or alternatively as a line repeater depending on the assignment of the physical address and on the parameterization of the device
- With a maximum of 3 line repeaters in parallel per line, the highest max. number of 256 devices in a line can then be realized
- A separate power supply is required for each line or each line segment
- LED status indication

#### ■ FUNCTIONS

##### Used as area/line coupler

- Reduced bus load due to filter function (filter table)
- Forwarding of group telegrams can be parameterised
- Telegram repetitions in case of transmission errors adjustable
- Telegram confirmation can be parameterised

#### ■ TECHNICAL DATA

	Line Coupler
Operating voltage KNX	Bus voltage
Operating voltage	21-30V DC
Width	2 modules
Current consumption superordinate line	6mA
Current consumption subordinate line	8mA
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

##### Used as line repeater

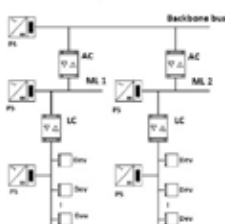
- Expansion of a line into a maximum of 4 line segments with up to 64 devices per segment
- Telegram repetitions in case of transmission errors adjustable

#### ■ PRODUCT CODES

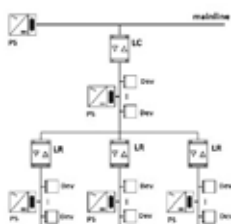
PRODUCT	PRODUCT CODES
KNX Line Coupler	WRKT21025NC

#### ■ CONNECTION

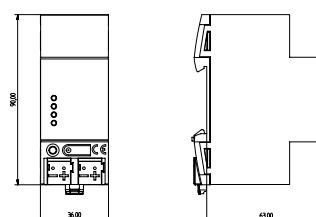
KNX Area/Line Coupler



KNX Line Coupler/Line Repeater



#### ■ DIMENSIONS



## POWER SUPPLY & INTERFACE USB Data Gateway

### KNX USB Data Gateway

#### KNX USB Gateway



#### ■ MAIN FEATURES

- Permits the connection of a PC to the instabus KNX / EIB
- Enables instabus devices to be addressed, programmed and diagnosed by means of the ETS
- The device electronics get their power supply completely from the USB interface of the connected PC
- The firmware of the USB data interface can be updated with the local PC so that the device can easily be adapted to future standards

#### ■ TECHNICAL DATA

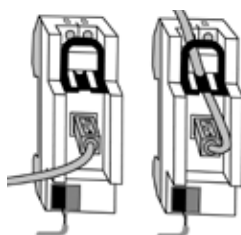
	USB Interface
Operating voltage KNX	Bus Voltage
Power supply	Via PC USB-port
Power consumption	150mW max.
Width	2 modules
Length of USB cable	5m max.
Transmission protocol	Compatible with USB standards 1.1 and 2.0
PC port (USB)	USB connecting socket type B
Rate of transmission	typically 9.6 kbaud
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

#### ■ PRODUCT CODES

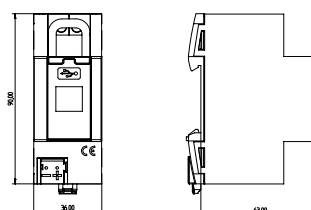
PRODUCT	PRODUCT CODES
KNX USB Gateway	WRKT25025NC

#### ■ CONNECTION

KNX USB Interface



#### ■ DIMENSIONS



## POWER SUPPLY & INTERFACE DALI Gateway

### KNX DALI Gateway

#### KNX DALI Gateway Tunable White



#### ■ MAIN FEATURES

- For controlling of luminaries and other applications with DALI operating device in KNX installations e.g. electronic ballast
- Each group features the full scope of functions without any restrictions. Functions can be parameterized separately for each group. This feature permits independent and multi functional control of the DALI devices
- Adjusting the limit values for brightness is possible
- Dimming response can be parameterized

- An individual DALI device can be exchanged during operation without software
- The configuration and commissioning of the DALI Gateway takes place via a plug-in
- With short circuit, surge and overload protection

#### ■ FUNCTIONS

- Control of a maximum of 64 DALI devices in a max. of 32 groups
- Incorporation of the groups into up to 16 light-scenes possible
- Central switching function
- Manual control of the groups independent of the bus (site operation with broadcast control)
- Feedback of DALI error status or short-circuit and supply voltage failure message
- Soft-On or Soft-Off function
- Timer functions (ON-delay, OFF-delay, staircase lighting function, also with pre-warning function) Technical

#### ■ TECHNICAL DATA

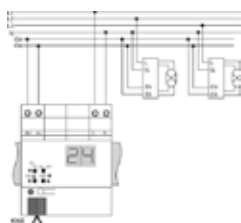
	DALI Gateway
Operating voltage KNX	Bus voltage,
Power consumption KNX	150mW max.
Width	4 modules
Operating voltage	110V...240V AC 50/60Hz
Number of DALI subscribers	64 max.
DALI rated voltage	16V DC
DALI transmission rate	1.2 kbit/s
DALI protocol	EN 62386
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

#### ■ PRODUCT CODES

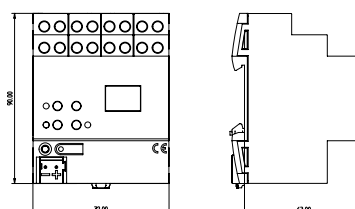
PRODUCT	PRODUCT CODES
KNX DALI Gateway	WRKT22045NC

#### ■ CONNECTION

DALI Gateway



#### ■ DIMENSIONS



## POWER SUPPLY & INTERFACE

### Binary Inputs for flush-mounted sockets 2/4/6 way

#### KNX Binary Inputs for flush-mounted sockets 2/4/6 way

##### KNX Binary Input 2-Way



##### KNX Binary Input 4-Way



##### KNX Binary Input 6-Way



### MAIN FEATURES

- Binary input modules with 2, 4 or 6 inputs for floating switch/ push button contacts
- Can be installed in combination with conventional push buttons/ switches in flush-mounted sockets
- Inputs can be reconfigured to outputs: binary input: potential-free contact/binary output: 1mA (low current) (LED 1mA types)
- Adjustable response to restoration of the bus supply

### INPUT FUNCTIONS

The following functions can be configured:

- Switch / push button input
- Dimmer control
- Control of blinds
- Value
- Up to 4 Command LED (With BI 6-way, only C1...C4)

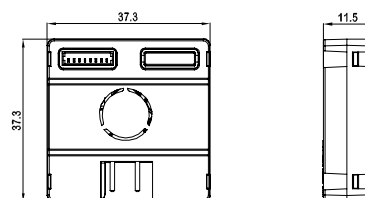
### TECHNICAL DATA

GENERAL		Inputs	
Power supply	Bus voltage	Quantity	2 Way: 2 outputs 4 Way: 4 outputs 6 Way: 4 outputs
Permitted operating temperature	-5 °C... + 45°C	Use	Low current LEDs without series resistor
Current draw from bus voltage	Max 10 mA	Output current	Maximum 1 mA / output
Bus connection	Bus terminal		
Type of protection	IP 20 to EN 60529		
Degree of pollution	2 to IEC 60664-1		
Protection class	Class III to IEC 61140		
Overvoltage class	Class III to IEC 60664-1		
Dimensions	LxWxH 37 x 37 x 12 (mm)		

### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX Binart Input 2-Way	WRKT24025NC
KNX Binart Input 4-Way	WRKT24045NC
KNX Binart Input 6-Way	WRKT24065NC

### DIMENSIONS

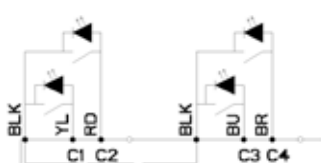


### CONNECTION

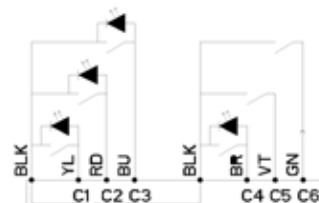
#### KNX Binart Input 2-Way



#### KNX Binart Input 4-Way



#### KNX Binart Input 6-Way







# Panasonic



# ACTUATOR



Actuator



## ACTUATOR Switching/Blind Actuators

### KNX Switching/Blind Actuator 12/6 Gang



### KNX Switching/Blind Actuator 8/4 Gang



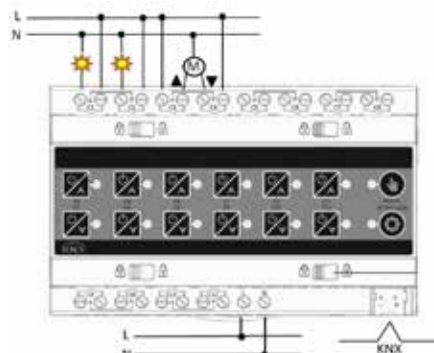
### KNX Switching/Blind Actuator 4/2 Gang



## ■ MAIN FEATURES

- Manual control for each channel
- Status LED for each channel
- High switching capacity (16A with high-inrush current capacity)
- 4 different channel functions can be selected: -Switching -ON/OFF Delay -Pulse function -Staircase light timer with switch-off pre-warning
- Possible integration of the channels into a maximum of 8 scenes
- Adjustable response to bus failure and restoration of the bus/mains power
- Logical functions
- On-site operation possible on the device (e.g. for installation testing), drives also possible without a bus voltage
- LED output status indicators
- Central UP/DOWN object
- 3 safety objects and function
- Possible integration of the channels into a maximum of 8 scenes
- Flexible reaction to safety telegrams: individually adjustable for each drive for start and end of the safety status
- Adjustable response to bus failure and restoration of the bus / mains power

## ■ CONNECTION





## ACTUATOR

### Switching/Blind Actuators

#### ■ TECHNICAL DATA

KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21–32 V DC
Mains supply	110 / 230 V AC
Mains frequency	50 / 60 Hz
Installation type	DIN rail
Mounting width	12/6 Channels – 144mm (8 modules) 8/4 Channels – 144mm (8 modules) 4/2 Channels – 72mm (4 modules)
Ambient temperature	–5 °C ... +45 °C
Storage temperature	–25 °C ... +55 °C
Transportation temperature	–25 °C ... +70 °C
Connection	
KNX	KNX bus terminal
Mains and outputs	Screw terminals
Max. cable cross section	Single wire: 1.5 mm <sup>2</sup> to 4mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup> to 2x2.5 mm <sup>2</sup> Stranded wire without ferrule: 0.75...4 mm <sup>2</sup> Stranded wire with ferrule: 0.5mm <sup>2</sup> to 2.5mm <sup>2</sup>
Output contact type	NO, potential-free µ-contact, monostable
Switching Voltage AC	0–230 V AC ±10%, 50/60Hz
Switching capacity at 230V AC	16A cos = 1 3A cos = 0.6

Loads per output	
Resistive load	3680 W
Capacitive load	max. 21µF at 16A
Motors (shutter or fan)	600W
Max. inrush current	80 A / 20 ms
Lamp Loads	
Incandescent / Halogen load	2000 W
230 V halogen lamps	1800 W
LV halogen lamps with Tronic transformers	800 W
LV halogen lamps with inductive transformers	800 VA
Fluorescent lamp load (conventional) parallel-corrected	2 x 58 W (7 µF), 3 x 36 W (4,5 µF), max. 120 W (14 µF)
Fluorescent lamp load (conventional) not corrected	14 x 58 W, 20 x 36 W, max. 1000 VA
Fluorescent lamp (EB – Electronic ballast)	3 x 36 W, 2 x 58 W, max. 120 W
Energy saving lamps	6 x 7 W, 4 x 11 W, 2 x 15 W, 2 x 20 W, 2 x 23 W

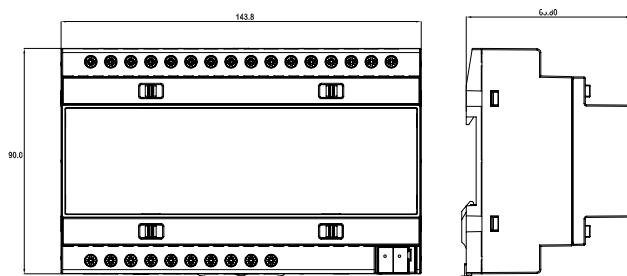
#### ■ SWITCHING CAPACITY

Resistive load	: 3000W
Capacitive load	: max.
140µF	
Incandescent lamp load	: 3000W
Halogen lamp load	: 2500W
Fluorescent lamp load uncompensated	: 1000W
Fluorescent lamp load parallel compensated (140µF)	: 1160W
Fluorescent lamp load duo circuit (140µF)	: 2300W
Motors	: 1380VA

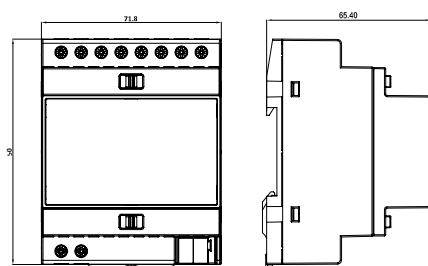
#### ■ PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX Switching/Blind Actuator 12/6 Gang	WRKT4512J5NC
KNX Switching/Blind Actuator 8/4 Gang	WRKT4508J5NC
KNX Switching/Blind Actuator 4/2 Gang	WRKT4504E5NC

#### ■ DIMENSIONS



For only 12/6 and 8/4.



For only 4/2

## ACTUATOR Dimming Actuators

### KNX 1-10V Control Unit 4 Gang



#### ■ MAIN FEATURES

- For switching and dimming of lighting circuits in combination with electronic ballasts or other dimmable 1-10 V devices
- “Soft-ON”, “Soft-OFF” and time dimmer are configurable
- Time-delayed switch-off when brightness value drops below the switch-off brightness is possible
- Multi-phase connection is possible

- 1-10V output and one switch output (relay contact) per channel
- Slide switches for manual control of the relays (also without bus voltage)
- No additional power supply required

#### ■ SWITCHING CAPACITY

Minimum load	: 5W
Resistive load	: 2500W
Capacitive load	: 1100W (max. 140μF)
Incandescent / halogen lamp load	: 2500W
Type-dependent fluorescent lamps with EVG (due to varying switch-on peaks)	

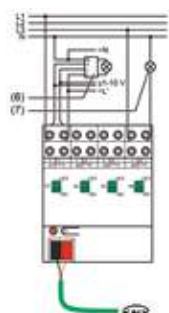
#### ■ TECHNICAL DATA

	CU 4
Operating voltage KNX	Bus voltage, (<10mA)
Signal voltage	1 – 10V
Signal current	100mA (per channel)
Power Consumption	240mW max.
Dimensions	4 modules
Type of contact	Relay contact, 16A (at 250V AC, cos=1), 10A (at 250V AC, cos=0.6)
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

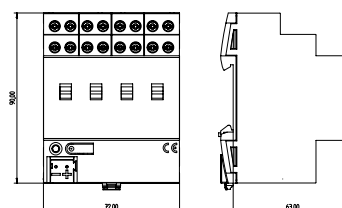
#### ■ PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX 1-10V Control Unit 4 Gang	WRKT5104E-5NC

#### ■ CONNECTION



#### ■ DIMENSIONS



## ACTUATOR

### Dimming Actuators

#### KNX Dimming Actuator - **COMING SOON**

##### KNX Dimming Actuator 2 Gang 300W DM102



##### KNX Dimming Actuator 4 Gang 250W DM104



#### ■ MAIN FEATURES

- 2 channel and 4 channel versions.
- Dimming range 0-100%.
- For dimming incandescent lamps, low voltage and high voltage halogen lamps, Dimmable CFL and Dimmable LED Driver loads.
- Device and KNX bus module can be swapped independently of each other.
- Removable KNX bus module enables devices to be changed without reprogramming.

- LED channel status indicator for each channel.
- Manual operation on device (even without bus connection).
- Dimming output: 300W per channel for 2 channels version, 250W per channel for 4 channels version.
- Automatic load type detection (can be deactivated).
- For R, L and C load.

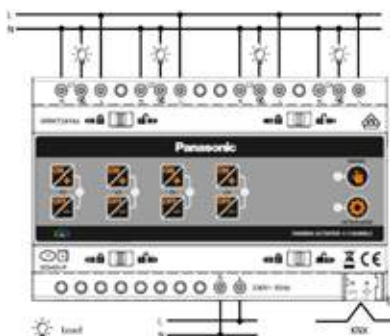
#### ■ TECHNICAL DATA

KNX Medium	TP1	
Mode of commissioning	S-Mode	
KNX supply	21–32 V DC	
Mains supply	230 V AC	
Mains frequency	50 Hz	
Installation type	DIN rail	
Mounting width	4 Channels – 144mm (8 modules) 2 Channels – 72mm (4 modules)	
Ambient temperature	–5°C...+45°C	
Storage temperature	–25°C...+55°C	
Trasportation temperature	–25°C...+70°C	
Connection		
KNX	KNX bus terminal	
Mains and outputs	Screw terminals	
Max. cable cross section	Single wire: 1.5 mm <sup>2</sup> to 4mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup> to 2x2.5 mm <sup>2</sup> Stranded wire without ferrule: 0.75...4 mm <sup>2</sup> Stranded wire with ferrule: 0.5mm <sup>2</sup> to 2.5mm <sup>2</sup>	
Max Loads		
Incandesant & Halogen HV	300W (200W in inductive mode)	250W (200W in inductive mode)
Halogen LV (Ferromagnetic Trasformer)	300VA (Capacitive mode not allowed)	250VA (Capacitive mode not allowed)
Halogen LV (Electronic Trasformer)	300VA (Inductive mode not recommended)	250VA (Inductive mode not recommended)
Dimmable LED (Retrofit) & CFL	300VA (30VA in inductive mode, auto calibration mode not recommended)	250VA (30VA in inductive mode, auto calibration mode not recommended)

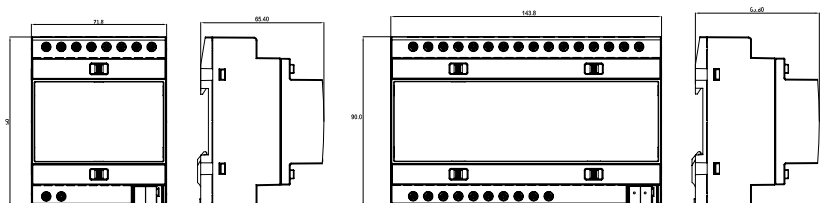
#### ■ PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX Dimming Actuator 2 Gang 300W DM102	WRKT5512E5NC
KNX Dimming Actuator 4 Gang 250W DM104	WRKT5414J5NC

#### ■ CONNECTION



#### ■ DIMENSIONS





## ACTUATOR Dimming Actuators

### KNX Dimming Actuators

#### KNX Dimming Actuator 2 Gang 300W



#### KNX Dimming Actuator 4 Gang 250W



### MAIN FEATURES

- For switching and dimming of HV incandescent lamps, HV halogen lamps and LV halogen lamps with inductive transformers or Tronic transformers
- Parameterizable switch-on and dimming behaviour
- Soft switch-on and soft switch-off function
- Time functions: switch-on delay, switch-off delay, staircase lighting timer with run-on time
- Protected against no-load, short-circuit and overheating
- LED status indication for operation
- Can be used as a speed controller of single-phase electric motors
- Logical operations e.g. Disable, AND, enable, OR
- Manual operation (also without bus voltage)

### TECHNICAL DATA

	DA 2	DA 4
Operating voltage KNX	Bus voltage, (<15mA)	Bus voltage, (<15mA)
Operating voltage	110V...230V AC, 50/60Hz	110V...230V AC, 50/60Hz
Power loss	4W max.	8W max.
Dimensions	4 modules	8 modules
Min. switching capacity	20W	20W
Max. switching capacity	300W	250W
Ambient temperature	-5°C ... +45°C	-5°C ... +45°C
Protection rating	IP20	IP20

### SWITCHING CAPACITY AT 230V AC

	2X300W	4X250W
Incandescent lamp load	: 300W	: 250W
Halogen lamp load	: 300W	: 250W
Inductive transformers	: 300W	: 250VA
Tronic transformers	: 300W	: 250W
Mixed load resistive-inductive	: 300W	: 250VA
Mixed load resistive-capacitive	: 300W	: 250W

### SWITCHING CAPACITY AT 110V AC

	2X300W	4X250W
Incandescent lamp load	: 150W	: 120W
Halogen lamp load	: 150W	: 120W
Inductive transformers	: 150W	: 120VA
Tronic transformers	: 150W	: 120W
Mixed load resistive-inductive	: 150W	: 120VA
Mixed load resistive-capacitive	: 150W	: 120W

### PRODUCT CODES

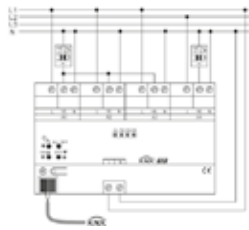
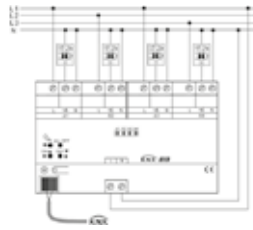
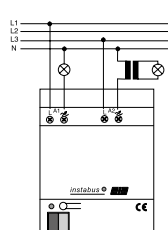
PRODUCT	PRODUCT CODES
KNX Dimming Actuator 2 Gang 300W	WRKT5502E5NC
KNX Dimming Actuator 4 Gang 250W	WRKT5404J5NC

### CONNECTION

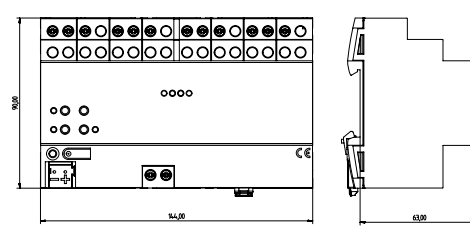
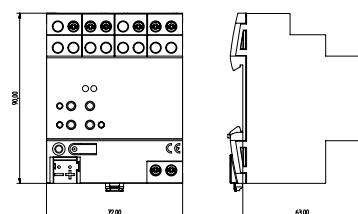
KNX Dimming Actuator  
2 Gang 300W

KNX Dimming Actuator  
4 Gang 250W

PARALLEL WIRING



### DIMENSIONS



## ACTUATOR Fan Coil Actuator

### KNX Fancoil Actuator



### MAIN FEATURES

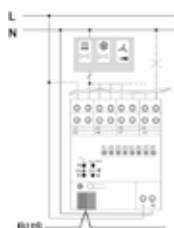
- For operation of ventilator convectors (fan coil units) implemented for room air conditioning
- Fan coil actuator for 2-pipe and 4-pipe systems
- Connection of one fan coil unit with up to 6 fan levels or connection of two fan coil units with up to 3 fan levels each
- Operating modes for heating, cooling or combined heating / cooling operation
- LED status indication for operation

### TECHNICAL DATA

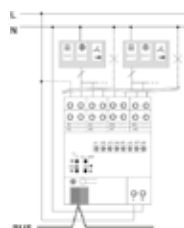
	FCA
Operating voltage KNX	Bus voltage, (<10mA)
Operating voltage	230V AC, 50/60Hz
Power Consumption KNX	150mW
Power Loss	3W max.
Dimensions	4 modules
Type of contact	μ contact, potential-free NO contact
Switching voltage	250V AC
Switching current	10A
Minimum switching current AC	100mA min.
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

### CONNECTION

1-Channel operation



2-Channel operation



- Free channels can be used for switching functions e.g. for room lighting
- Cyclical or event-oriented transmission
- Manual operation on device (fan stages, valve and switching outputs)
- Limit values can be set

### FUNCTIONS

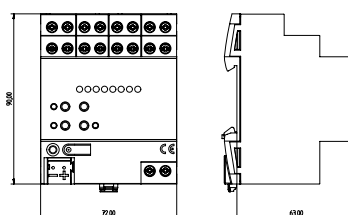
Up to 5 different fan coil systems can be set:

- 2-pipe system only heating (in 1-channel and 2-channel operation)
- 2-pipe system only cooling (in 1-channel and 2-channel operation)
- 2-pipe system heating/cooling via change-over object (in 1-channel and 2-channel operation)
- 4-pipe system heating/cooling via change-over object (only in-channel operation)
- 4-pipe system heating/cooling via command value specification (only in 1-channel operation)

### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX Fancoil Actuator	WRKT71445NC

### DIMENSIONS



## ACTUATOR Heating Actuator

### KNX Heating Actuator With Controller 6 Gang



#### MAIN FEATURES

- For switching of thermal actuators for heaters or cooling ceilings
- Can control up to 6 rooms using thermal actuators for every channel
- Up to 4 thermal valve drives can be connected per channel
- The outputs can be controlled either with switching or with PWM

- Overload-protected, short circuit-protected
- Protection against jamming valves

#### SWITCHING CAPACITY

By means of parameter settings, the following functions are possible for each input:

- Switch / key input
- Dimmer control
- Control of blinds
- Valuator
- Counter

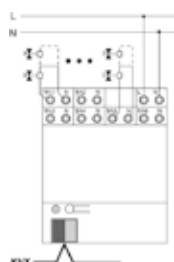
#### TECHNICAL DATA

	HA 6
Operating voltage KNX	Bus voltage, (<15mA)
Operating voltage	110...230V AC, 50/60Hz
Power Consumption KNX	250mW max.
Width	4 modules
Type of contact	Triac
Voltage output	230V AC
Switching current output	5...160mA
Switch-on current	1,5A max. (2 sec)
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

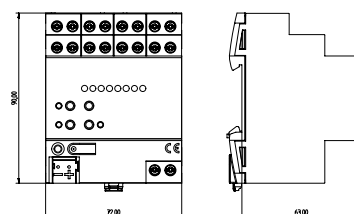
#### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX Heating Actuator with Controller 6 Gang	WRKT72645NC

#### CONNECTION



#### DIMENSIONS



## ACTUATOR

### Mix Actuators - COMING SOON

Switching/Blind/Fancoil/Heating/Logic



#### MAIN FEATURES

Device has 7 main function groups:

- 1. Switching**  
The switching mode is used for switching lighting devices. The output is controlled by using time, logic and safety functions.
- 2. Heating**  
Heating mode uses 1 output channel. It basically controls valve which controls hot water fluid in pipes. The configuration of heating option helps energy consumption.
- 3. Shutter/Blind**  
Shutter/Blind may be employed for a variety of reasons, including controlling the amount of sunlight that enters a room, to provide privacy, security, to protect against weather or unwanted intrusion or damage and to enhance the aesthetics of a building. There are two different functionality such as "shutter" and "blind". These options have same capabilities. "Blind" has some additional functionalities for slat usage.
- 4. Fan coil**  
A fan coil is a device basically consisting of one or two heat exchangers, one or two control valves and a fan. It is part of an HVAC system connected to a central heating and cooling water supply. The main aim is to heat, cool or ventilate a room in residential, commercial, and industrial buildings.
- 5. Logic**  
You can use up to 4 logic operation function. In every logic operation function you can use 4 different inputs. In logic function you can use AND operation, OR operation and XOR operation.
- 6. Converter**  
You can use up to 4 different converter operations. Each operation has its own objects. You have to select input type and value and the value which you want to be converted to. There are 6 types for input and output. Object type changes according to your selection.
- 7. Sequence**  
This function allows you to set a relation between selected objects. You can select 1-Bit objects as well as 1-Byte objects. There are 4 different sequence functions. Each sequence function has 1 input object and maximum 4 output objects. Number of output object is selectable.

Functional specifications are detailed below in ETS parameters and communication objects.

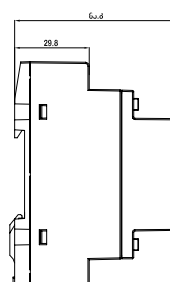
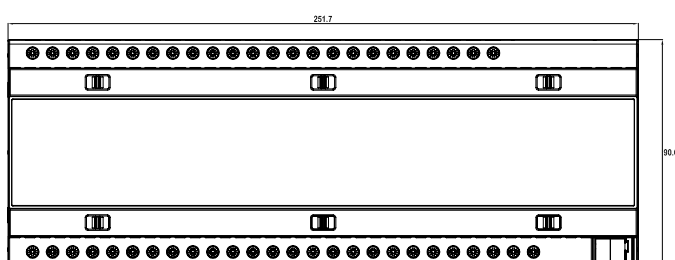
#### TECHNICAL DATA

Supply voltage	230 V AC
Mains frequency	50 / 60 Hz
KNX supply	21-32 V DC
Operating temperature	-5 °C... + 45 °C
Type of protection	IP 20
KNX Medium	TP1
Mode of commissioning	S-Mode

#### PRODUCT CODES

	PRODUCT CODES
KNX Mix Actuator MX124-16A	WRKT4624Q5NC
KNX Mix Actuator MX120-16A	WRKT4620Q5NC
KNX Mix Actuator MX116-16A	WRKT4616Q5NC
KNX Mix Actuator MX112-16A	WRKT4612J5NC
KNX Mix Actuator MX108-16A	WRKT4608J5NC
KNX Mix Actuator MX104-16A	WRKT4604E5NC

#### DIMENSIONS





## SENSOR & DETECTOR

Thermostat



## SENSOR & DETECTOR

### KNX Modular Thermostat



#### ■ MAIN FEATURES

- Individual room thermostat for controlling heating actuators and fan coil units
- Can be used as continuous or two point control.
- Continuous PI control can be configured for two stage or for heating and cooling
- Can support the operating modes as comfort, night/standby, frost protection, presence, window status
- LCD for displaying all functions, actual temperature and also date
- Operation mode and temperature set value can be changed by user via buttons
- Can be located into all frames of Thea Modular Series; Optima, Sistema and Ultima

#### ■ TECHNICAL DATA

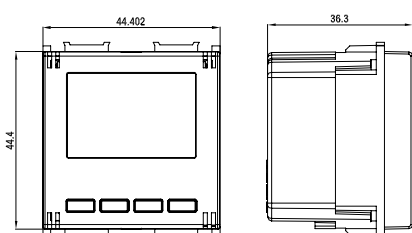
	Modular Thermostat
Power supply	Bus voltage.
Permitted operating temperature	-5°C ... +45°C
Current draw from bus voltage	Max 10 mA
Bus connection	Bus terminal
Type of protection	IP 20 to EN 60529

#### ■ PRODUCT CODES

COLOUR	PRODUCT CODES
KNX Modular Thermostat White	WRKT33005WH
KNX Modular Thermostat Beige	WRKT33005BG
KNX Modular Thermostat Metallic White	WRKT33005MW
KNX Modular Thermostat Anthracite	WRKT33005AN
KNX Modular Thermostat Dark Gray	WRKT33005DG
KNX Modular Thermostat Dore	WRKT33005DR
KNX Modular Thermostat Black	WRKT33005BL

#### ■ DIMENSIONS

##### KNX Modular Thermostat





## SENSOR & DETECTOR

KNX Modular Thermostat

### ■ COLOR ALTERNATIVES



Opaque White



Beige



Metallic White



Dore



Anthracite



Dark Gray



Black



## SENSOR & DETECTOR - COMING SOON

### KNX Ceiling Type Presence Detector



#### MAIN FEATURES

- 3 different products in same casing.
  - Presence detector with air quality function. (Have air flow window for better sensing)
  - Presence detector without air quality measurement function.
  - Presence detector without temperature, humidity and air quality measurement function.
- PIR sensor on product has moving lens and shade ring for better field of view adjustment.
- There is a light carrier rods from circuit board to outside of case for ambient light sensor.
- Mixed light measurement suitable for fluorescent (FL/PL/ESL), halogen/incandescent lamps and LEDs.
- KNX button of product is under the front cover for easy access.
- Product has a flush mounted installation in ceilings with wall box or clamps.

#### FUNCTIONAL SPECIFICATIONS

Device has 3 main and 1 additional function groups;

- Presence Detection
  - Lightning & HVAC control based on presence.
- On-Off Light Control
  - Lightning control based on brightness.
- Constant light control
  - Lightning control based on brightness set value.
- Brightness, Temperature, Humidity and Air Quality Measurements.
  - Brightness measurement from 1 to 3000 lux
  - Temperature measurement from 0°C to 45°C
  - Relative humidity from %0 to %100
  - Equivalent carbondioxide from 400ppm to 8192ppm. Measures volatile organic compounds and calculating the equivalent CO2 level.

Functional specifications are detailed below in ETS parameters and communication objects.

#### TECHNICAL DATA

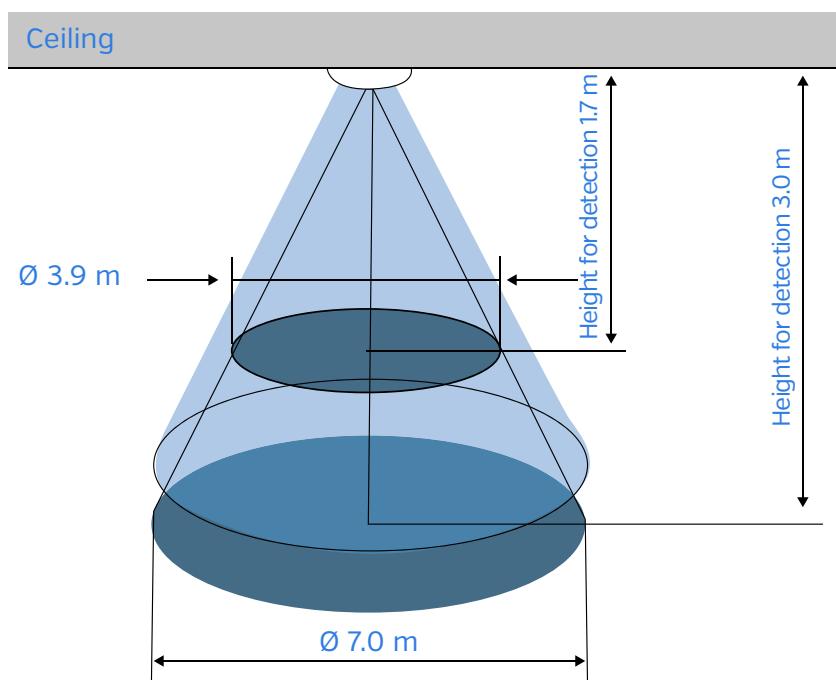
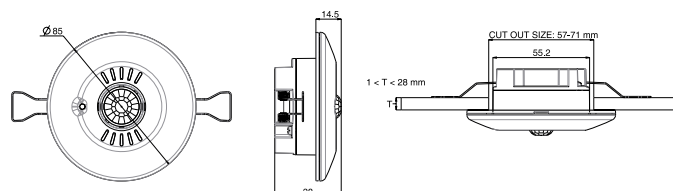
	KNX Ceiling Type Presence Detector
Supply voltage	21 ... 32 V DC via KNX Bus
Operating temperature	-5 °C... + 45°C
Type of protection	IP 20 to EN 60529
Safety class	III to IEC 60664-1
Presence. detection range	Up to Ø8m
Detectable movement speed	0.3 m/s ~ 1.0 m/s
Detectable temperature difference	More than 4 °C

Product Version	Features
KNX Ceiling Type Presence Detector A100	PIR Sensor
KNX Ceiling Type Presence Detector A100-T	PIR, Temperature and Humidity Sensor
KNX Ceiling Type Presence Detector A100-TA	PIR, Temperature, Humidity and Air Quality Sensor

## ■ PRODUCT CODES

	PRODUCT CODES
KNX Ceiling Type Presence Detector A100	WRKT32005NC
KNX Ceiling Type Presence Detector A100-T	WRKT32015NC
KNX Ceiling Type Presence Detector A100-TA	WRKT32025NC

## ■ DIMENSIONS



- The scope of detection is different depending on the height of the ceiling (Unit:m)

Ceiling height	2.4	3.7
Guideline height for detection scope setting	1.7	3.0
Diameter of detection scope	Ø 3.9	Ø 7.0

Remark: The standard of appropriate height is 70 cm from floor or height from floor to hand of human for detection.

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