

# Panasonic

GENERAL CATALOGUE 2021

BUILDING AUTOMATION SYSTEMS



- . Panasonic 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.



PANASONIC HOME AUTOMATION SYSTEMS

With its Panasonic 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 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 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 smartphone from outdoors.

## User Benefits



### Comfort & Convenience

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

Panasonic 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.

### Luxury

#### Beyond Luxury... It's Panasonic.

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

- Variety switch plate matches any kind of living space.
- Panasonic 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 Panasonic Touch Panel.



### Energy Efficiency

#### What makes a building "smart"?

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

Panasonic 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.



### Security & Flexibility

#### Safety is first...

No more "Have I left anything on at home?" worries... Panasonic 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, Panasonic 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 Panasonic Switches...**

From illumination, air conditioning and blind-shutter control to integration of security systems, Panasonic 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 color and frame types of Panasonic Modular Series.

**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.

**NEW KNX MULTI FUNCTIONAL SWITCH**

Thermostat with KNX switches  
Inox

KNX switches  
Light green

Red claret

Inox

Black

**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.

## Panasonic Touch Panel

**Stylish and functional...**

**It's Panasonic Touch Panel.**

Everything is at the fingertips with Panasonic Touch Panel. Panasonic 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



## 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.

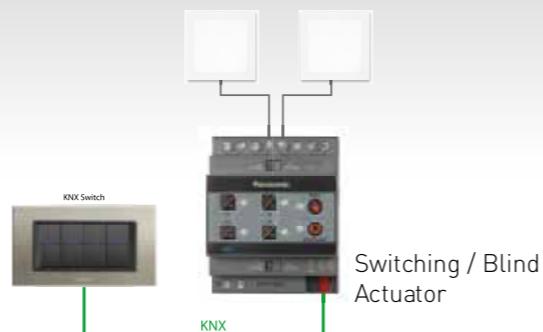


## Basic Functions



### 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

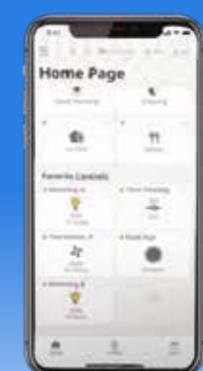
Several different controlling options can be used to dim the lighting including 1-10V and DALI. A DALI-Gateway serves as the interface between the KNX installation in the building and the digital DALI lighting control system, and therefore unites the two most important building automation standards.



Panasonic combines technology with human touch...

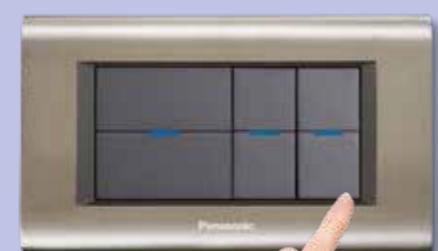
### SCENE LIGHTING

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

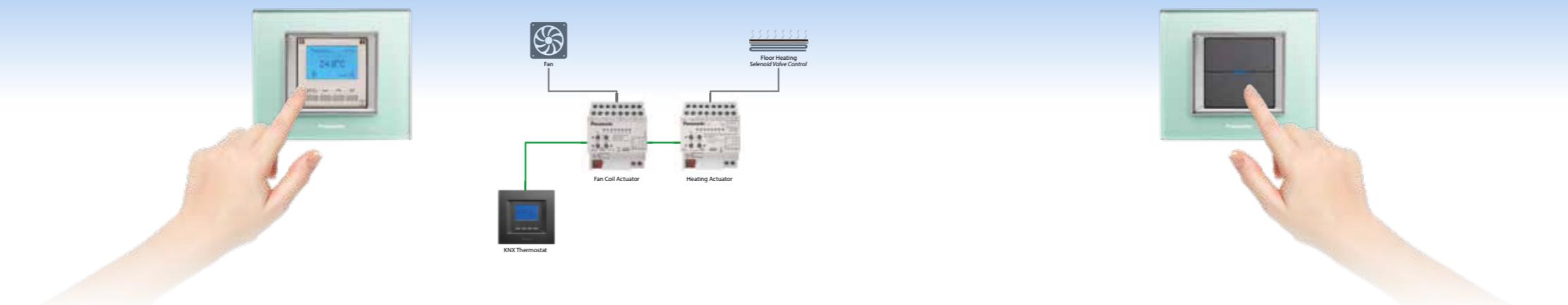
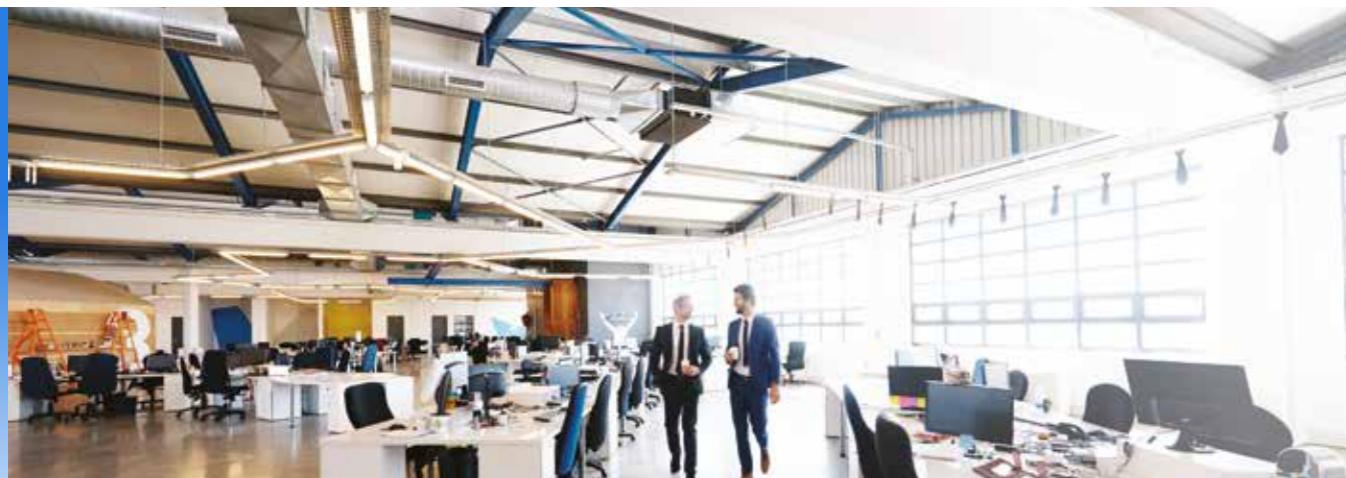


### SENSOR & TIMER CONTROL

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



## HVAC Control



**Panasonic Panasonic 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.

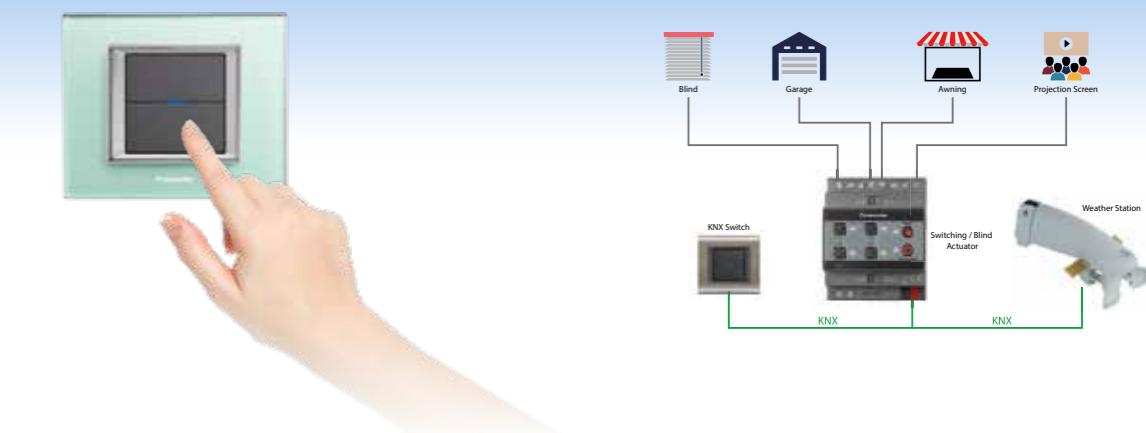
#### PLEASANT VENTILATION

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.

## Blind Control



**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.

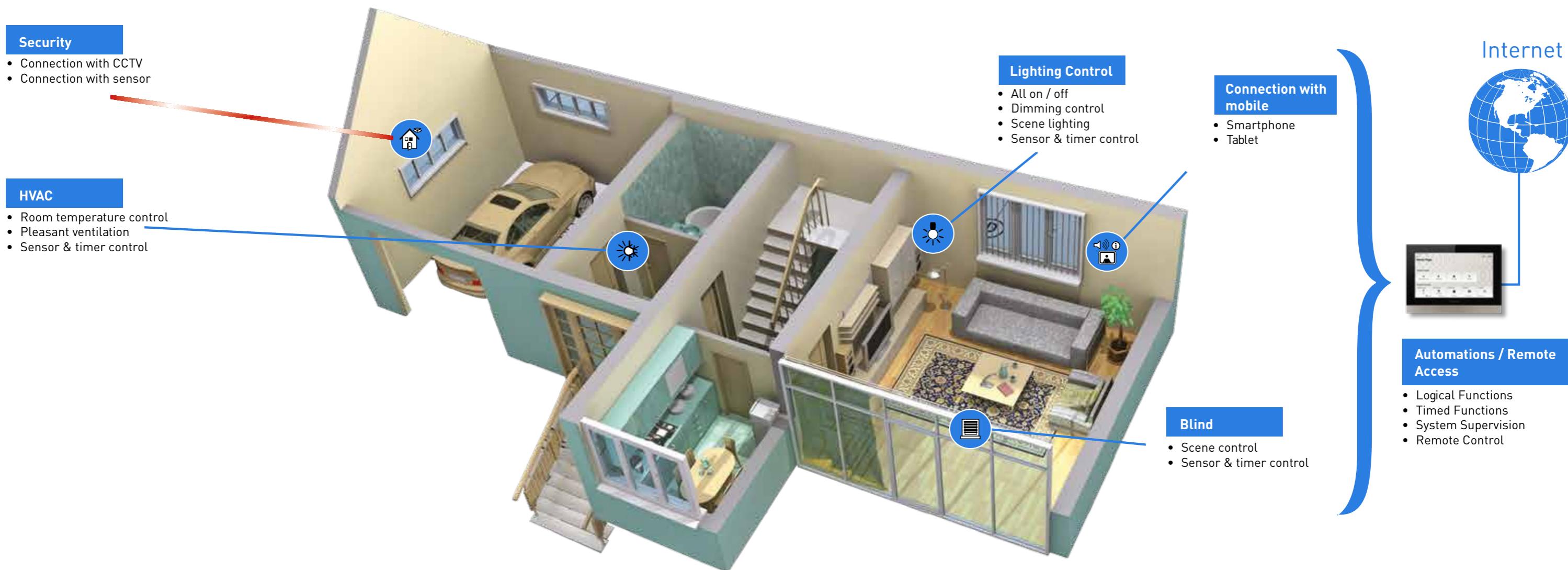
#### SCENE CONTROL

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 Panasonic...



Illumination



Roller Blind -  
Curtain



Security  
Systems



Heating, Ventilation,  
Air Conditioning  
Control



Monitoring  
Systems



Remote Access



Intercom

## Product range of PANASONIC



Page 16-19

Touch Panel



Page 20-47

Switch



Page 48-58

Power Supply & Interface



Page 59-67

Actuator



Page 68-73

Sensor & Detector



## 10.1" 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 Panasonic 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 lighting 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.



### KNX TOUCH PANEL TP110 and KNX MOUNTING BOX MB110



#### TECHNICAL DATA

Hardware Features	
Operating Voltage	12-24V
Power Consumption	18W or less
Recommended Power Supply and Permissible cable length	12V - 4.5A (per device) Maximum 100 m at φ1.6 or 2.0 mm <sup>2</sup>
Operating Temperature	-5~50°C
Relative Humidity	0-90 %
LCD Size	10 Inch 1024x600
OS	Linux®
Interface	1 x 100 Mbit/s Ethernet port (LAN1) 1 x 100 Mbit/s Ethernet port (LAN2) 1 x USB 3 x Digital Inputs / 2 x Dry Contact Outputs
Ethernet Standards	IEEE 802.3u / IEEE 802.3 ab
Maximum Wire Length for Ethernet	100 m

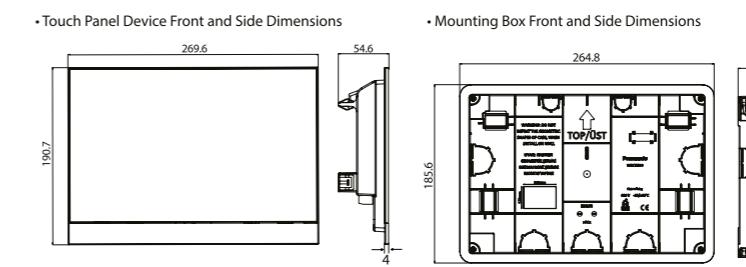
Inputs	
Scanning voltage (Un) for Inputs	8-30V pulsed (depends on the power into the monitor)
Scanning current (In) for Inputs	0.1mA
Scanning current In at switch on for Inputs	Maximum 20 mA
Permissible cable length for Inputs	Maximum 100 m at φ1.2 or 1.2 mm <sup>2</sup>

Outputs				
	Endurance	Condition	Inrush Current	Consumption
Resistance load	50,000 times	5A L/R=0	-	150 W
Inductive load	20,000 times	5A L/R=7 ms	5A	120 W
Motor load	6,000 times	1.5A, cosφ=0.4	15A / 80ms cosφ=0.7	330 VA

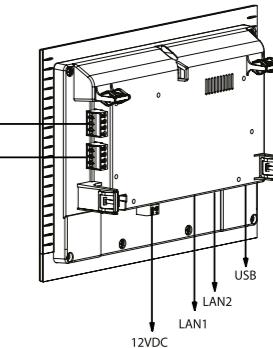
#### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX TOUCH PANEL TP110	WRKT91115AR
KNX MOUNTING BOX MB110	WRKT93105AR

#### DIMENSIONS



#### CONNECTION



## KNX IP INTERFACE IP100 and KNX IP INTERFACE I/O IP164



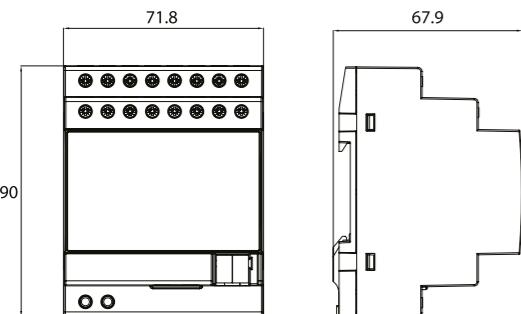
### MAIN FEATURES

- Providing an IP connection to KNX TP
- Support KNXnet / IP tunneling function
- 4 IP tunneling connection with individual address
- IP filtering for tunneling connections
- Parameter setting via web interface
- Firmware update via web interface
- DIN rail
- ETS5 compatible
- Input and Output objects (only for IP164)
- No need for an additional power supply
- APDU length 15 byte
- KNXnet/IP, DHCP, AutoIP, HTTP, UDP/IP, TCP/IP, ARP, ICMP and IGMP protocol support

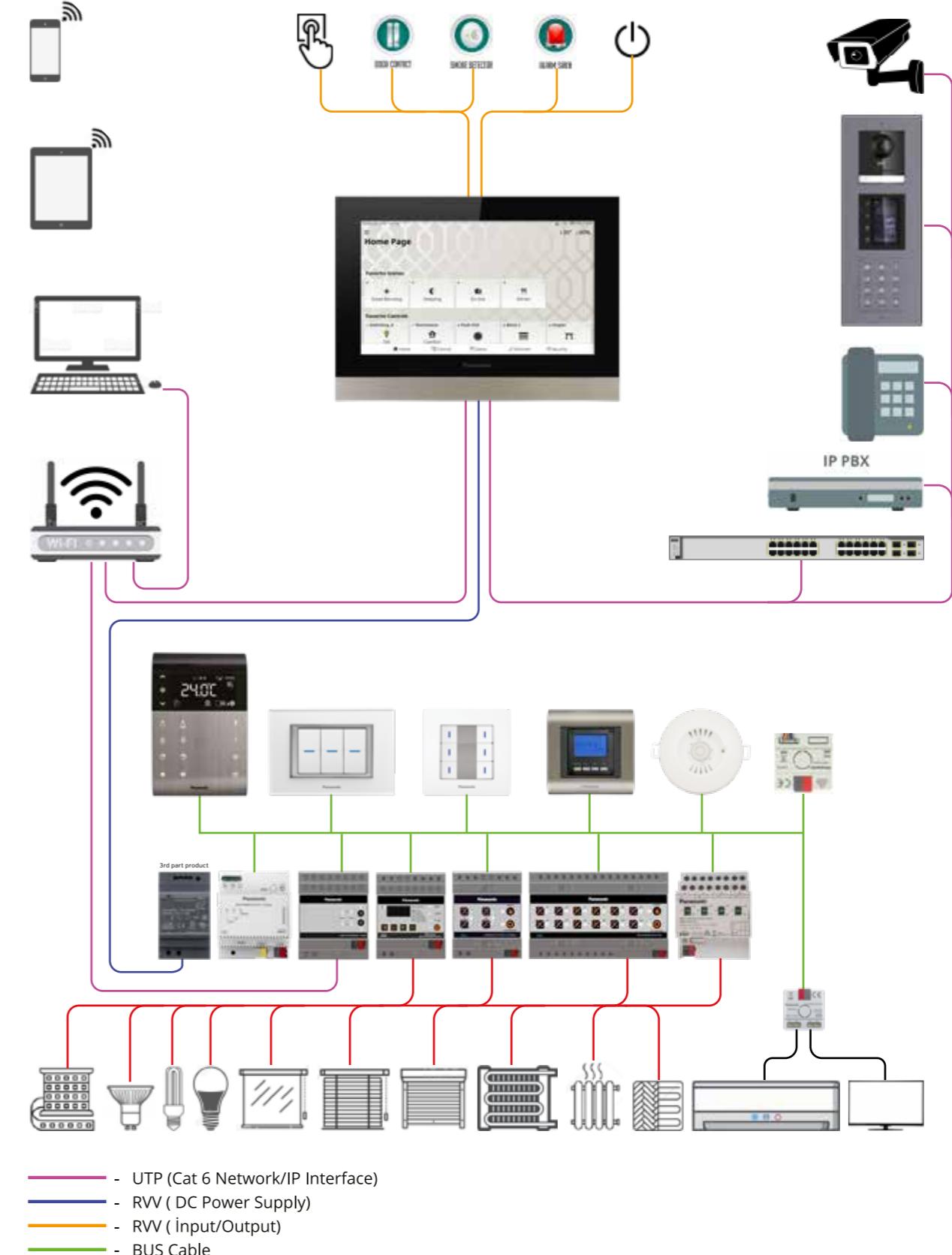
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX IP INTERFACE IP100	WRKT92105NC
KNX IP INTERFACE I/O IP164	WRKT92115NC

### DIMENSIONS



## Panasonic Home Automation System Connection Diagram



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

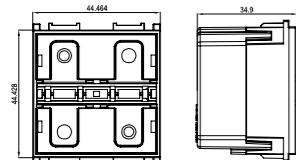
	2x1/1GANG	4x2/2GANG	6x3/3GANG
Operating voltage KNX	Bus voltage (<10 mA)		
Ambient temperature	-5°C ... +45°C		
Protection rating	IP20		

#### PRODUCT CODES

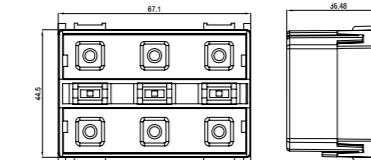
PRODUCT	PRODUCT CODES
KNX Modular Switch 1 Gang-2M	WRKT61215NC
KNX Modular Switch 2 Gang-2M	WRKT61225NC
KNX Modular Switch 3 Gang-3M	WRKT61335NC

#### 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

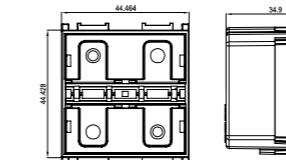
	TSA 8x4 [2M]	TSA 8x4 [4M]
Operating voltage KNX	Bus voltage (<10 mA)	
Ambient temperature	-5°C ... +45°C	
Protection rating	IP20	

#### PRODUCT CODES

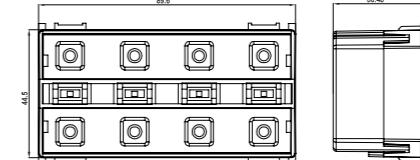
PRODUCT	PRODUCT CODES
KNX Modular Switch 2 Gang-4M	WRKT61245NC
KNX Modular Switch 4 Gang-4M	WRKT61445NC

#### DIMENSIONS

4 GANG [2M]



4 GANG [4M]



## SWITCH Frame and Cover Color Alternatives

### Optima



### Optima Color Alternatives

#### OPAQUE



OPAQUE  
WHITE

#### METALLIC



METALLIC  
WHITE

BLACK

DARK GRAY

ANTHRACITE

DORE

## SWITCH Frame and Cover Color Alternatives

### 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

### Frame Alternatives



2M

2/3M

3M

4M

7M

## 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

## 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

## 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

## SWITCH Frame and Cover Color Alternatives

Product Codes

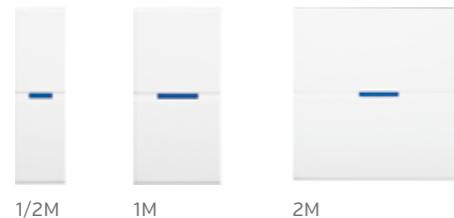
### ULTIMA FRAMES PRODUCT CODES

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

## ACCESSORIES

### Color Alternatives

#### WHITE



1/2M    1M    2M

#### METALLIC WHITE



1/2M    1M    2M

#### BLACK



1/2M    1M    2M

### Full Range



1 GANG  
2M

2 GANG  
2M

4 GANG  
2M

3 GANG  
3M

4 GANG  
4M

## ACCESSORIES

### Plastic Button Cover Pcs Table

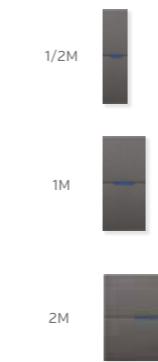
KNX MODULAR SWITCH			PLASTIC BUTTON COVER	
	1/2M WRKT81004XX	1M WRKT81014XX	2M WRKT81024XX	
2M	1 Gang	WRKT61215NC		1 pcs
2M	2 Gang	WRKT61225NC		2 pcs
3M	3 Gang	WRKT61335NC		3 pcs
2M	4 Gang	WRKT61245NC	4 pcs	
4M	4 Gang	WRKT61445NC		4 pcs

### COLOR CODE

XX	EXPLANATION
WH	WHITE
MW	METALLIC WHITE
BL	BLACK

### BUTTON COVER PRODUCT CODES

COVER COLOR	1/2 M	1M	2M
White	WRKT81004WH	WRKT81014WH	WRKT81024WH
Metallic White	WRKT81004BG	WRKT81014BG	WRKT81024MW
Black	WRKT81004BL	WRKT81014BL	WRKT81024BL



1/2M

1M

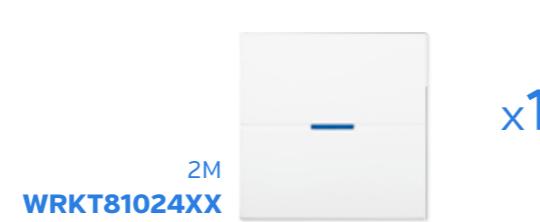
2M

## ACCESSORIES

### Using Mechanism and Button Cover



2x1 / 1 GANG [2M]  
WRKT61215NC



2M  
WRKT81024XX

x1



4x2 / 2 GANG [2M]  
WRKT61225NC

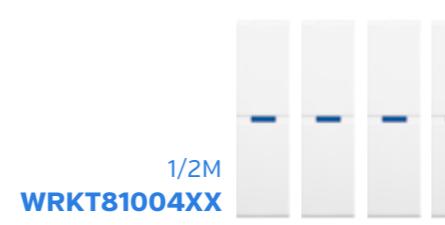


1M  
WRKT81014XX

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

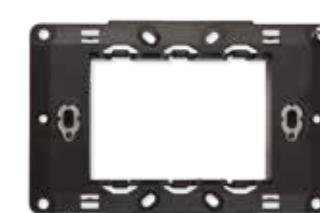
#### 2M MOUNTING FRAMES



#### 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	WVTC0733-4NC	WVTC0734-4NC	WVTC0735-4NC	WVTC0736-4NC
Mounting Frame [With Claw]	WVTC0730-4NC	WVTC0737-4NC			
Mounting Frame [Ultima]	WVTC0731-4NC				

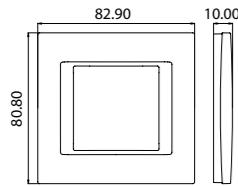
#### BOXES PRODUCT CODES

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

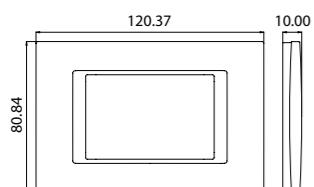
## TECHNICAL INFORMATION Frames

### Frame Dimensions

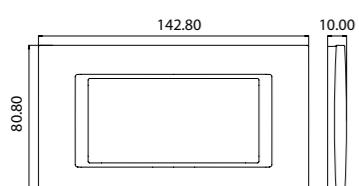
#### ■ OPTIMA FRAMES



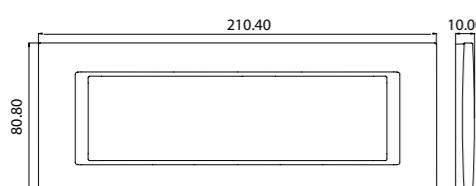
2M



3M

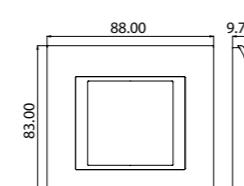


4M

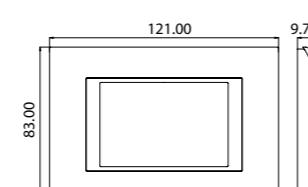


7M

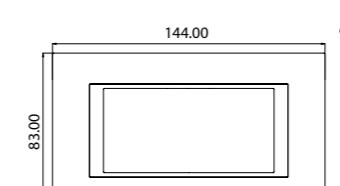
#### ■ SISTEMA FRAMES



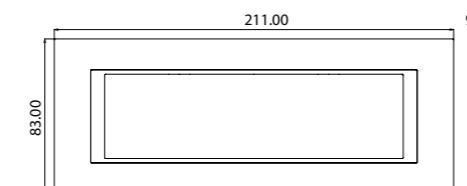
2M



3M



4M

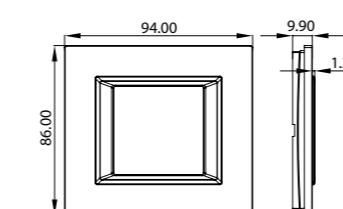


7M

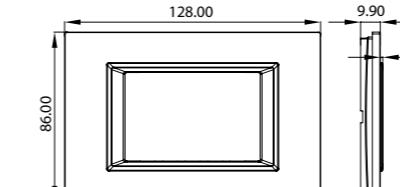
## TECHNICAL INFORMATION Frames

### Frame Dimensions

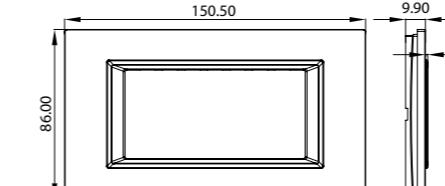
#### ■ ULTIMA FRAMES



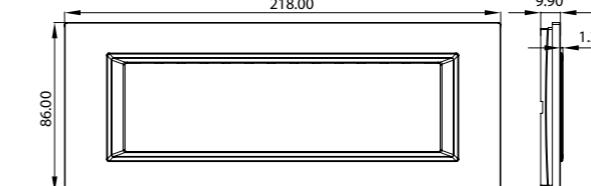
2M



3M



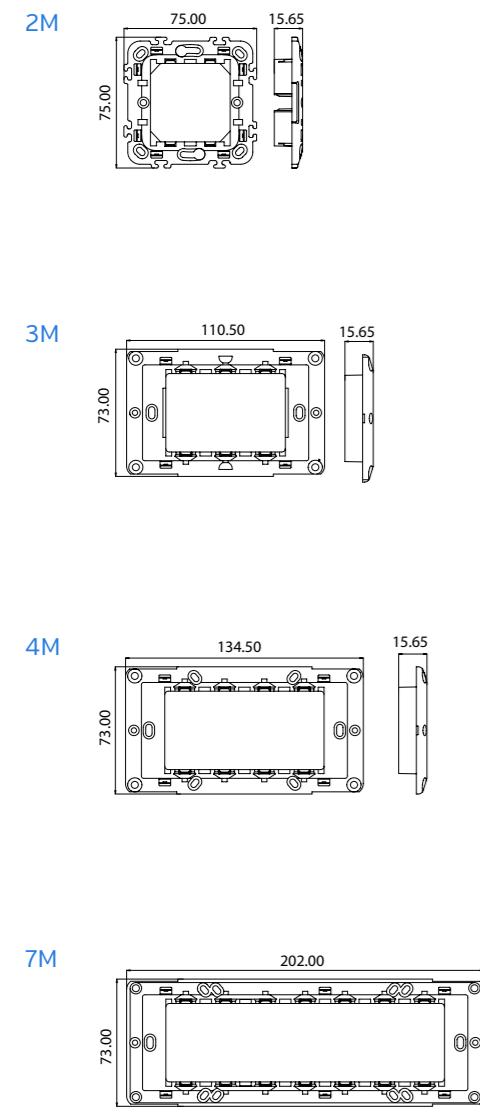
4M



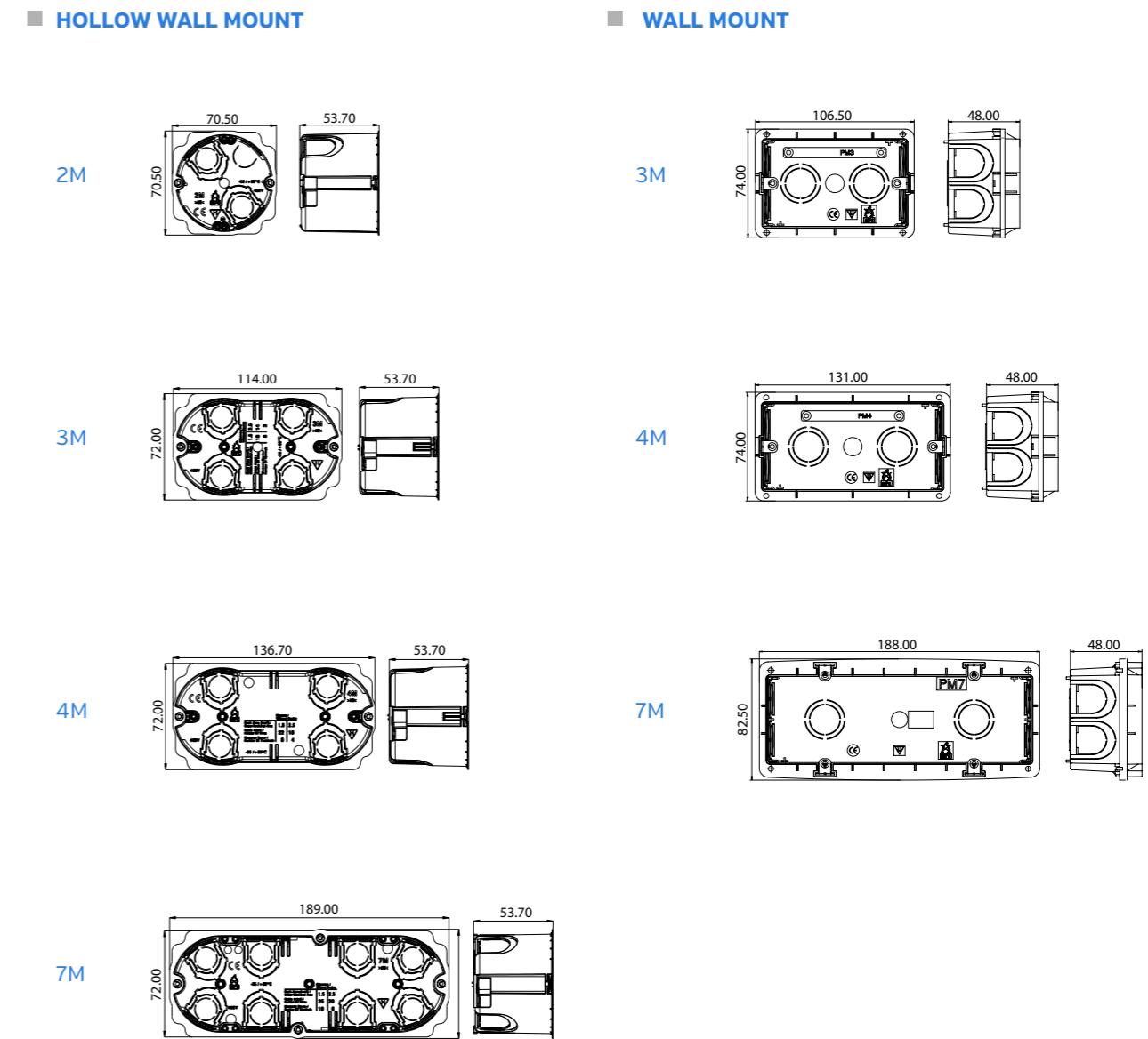
7M

## TECHNICAL INFORMATION Accessories

### Mounting Frame Dimensions



### Wall Box Dimensions

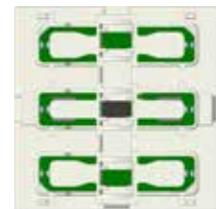


**UPCOMING KEYPAD**  
KNX Standard

Using Mechanism and Button Cover



**KNX SWITCH BAU  
(BUS ACCESS UNIT)**

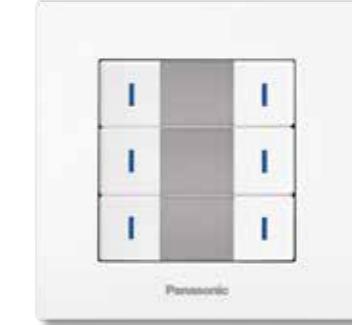


**WRKT60015NC  
KNX 1 GANG KNX SWITCH  
ELECTRONIC GROUP**

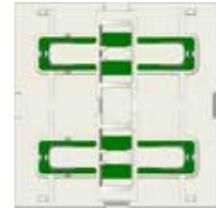


**KNX 1 GANG SWITCH COVER**

**SWITCH**  
Frame Color Alternatives



**KNX SWITCH BAU  
(BUS ACCESS UNIT)**



**WRKT60025NC  
KNX 2 GANG KNX SWITCH  
ELECTRONIC GROUP**



**KNX 2 GANG SWITCH COVER**

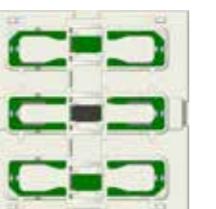


White      Silver      Dark Gray      Black

Aluminum Silver      Aluminum Bronze      Aluminum Black



**KNX SWITCH BAU  
(BUS ACCESS UNIT)**



**WRKT60035NC  
KNX 3 GANG KNX SWITCH  
ELECTRONIC GROUP**



**KNX 3 GANG SWITCH COVER**



White      Beige      Silver      Bronze      Dark Grey      Black

For frame options, please contact with the relevant sales point.



## SWITCHES

### KNX Multi Functional Switch

[KNX Multi Functional Switch \[LCD Display\]](#)



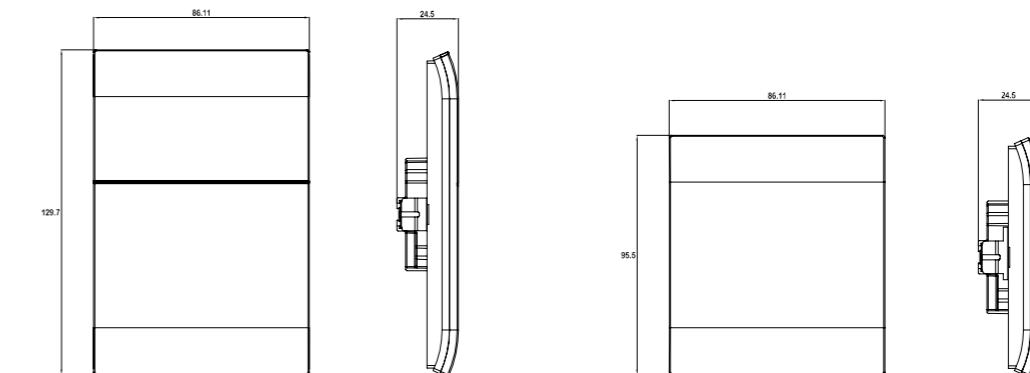
#### MAIN FEATURES

- 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.

#### TECHNICAL DATA

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

#### DIMENSIONS



[KNX Multi Functional Switch \[No Display\]](#)



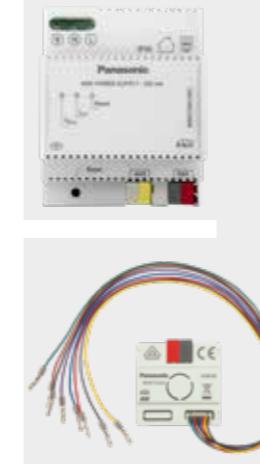
#### FUNCTIONAL SPECIFICATIONS

1. Touch Button
  - Switching
  - Dimming
  - Shutter/Blind control
  - Scene activation
2. Thermostat
  - Heating and cooling control
  - Fan Control
  - Weekly Program
3. Scene Actuator

#### PRODUCT CODES

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

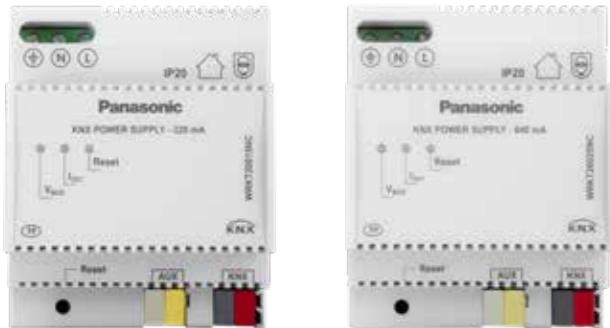
## POWER SUPPLY & INTERFACE



Power Supply

Interface

## KNX POWER SUPPLY TP-320mA/640mA



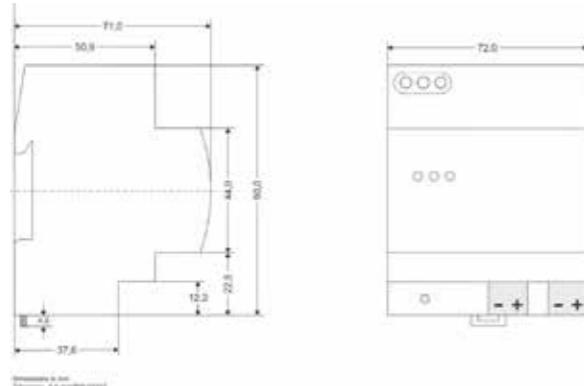
### MAIN FEATURES

- Powers one line of a KNX system
- 320mA or 640mA options
- Additional unchoked output (only with additional choke)
- Overload-proof and short circuit protection for both outputs
- Indicated KNX bus line voltage, output current and line status by LEDs
- Reset button for resetting the KNX bus line
- Indicated of bus disconnection during reset by LED

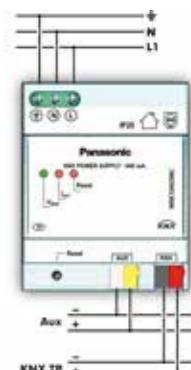
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX POWER SUPPLY TP - 320mA	WRKT20015NC
KNX POWER SUPPLY TP - 640mA	WRKT20025NC

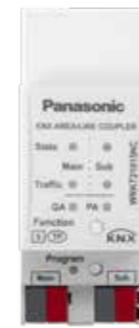
### DIMENSIONS



### CONNECTION



## KNX AREA / LINE COUPLER TP



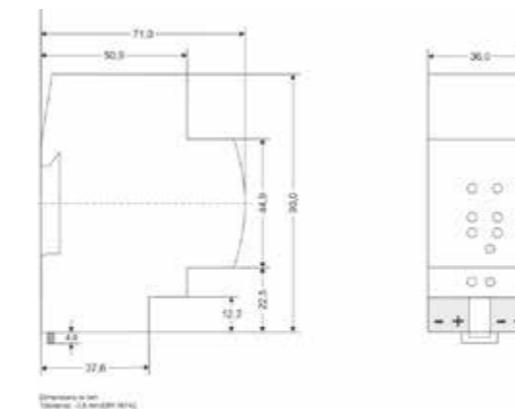
### MAIN FEATURES

- Connecting two TP lines as main line and sub line and the electrical separation these lines from each other
- According to the address and parameters assigned to the device: Use as field, line coupler or line repeater (without filtering)
- Configured button to temporarily deactivate filtering for commissioning and troubleshooting
- Indicated operation and filtering statuses by LEDs

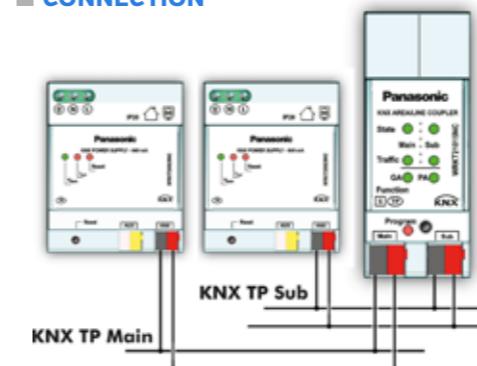
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX Area / Line Coupler TP	WRKT21015NC

### DIMENSIONS



### CONNECTION



### TECHNICAL DATA

Power input	
Power supply	21...30 V DC SELV
Current consumption	< 10 mA (from main line)
Housing	
Dimensions (HxWxD)	90 x 36 x 71 mm
Mounting (IEC60715)	35 mm top-hat rail (TH35)
Width in space units	2 modules at 18 mm
KNX bus connections	KNX connector (red/black) for KNX TP main line & subline
Weight	62 g
Environmental conditions	
Operating temperature	-5...45 °C
Storage temperature	-20...60 °C
Ambient humidity	5...93 % (non-condensing)
Electrical safety	
Pollution degree (IEC60664)	2
Protection type (IEC60529)	IP20
Protection class (IEC61140)	III
Overshoot category (IEC60664)	III
Approbation (ISO/IEC14543-3)	KNX-certified

## KNX USB GATEWAY TP



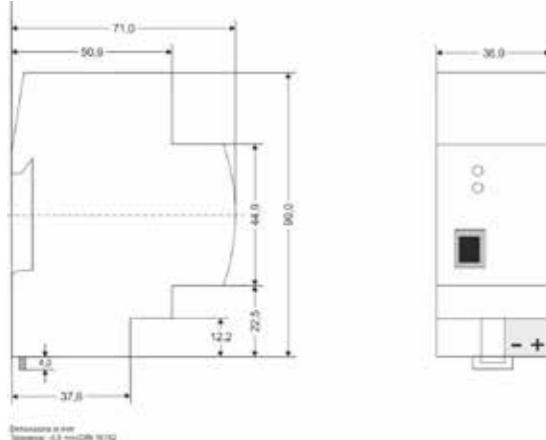
### MAIN FEATURES

- Connecting PCs to the system via USB
- Provides a bi-directional connection to the KNX TP bus system
- No external power supply is necessary

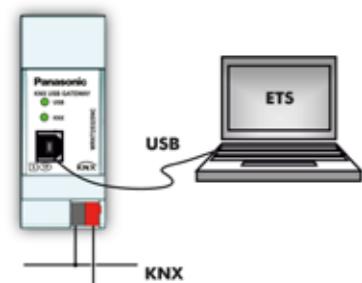
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX USB Gateway TP	WRKT25325NC

### DIMENSIONS



### CONNECTION



## KNX IP ROUTER TP



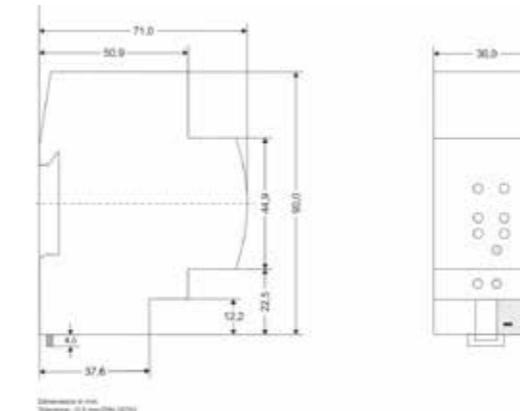
### MAIN FEATURES

- Connecting KNX IP and KNX TP
- Integration KNX IP / Ethernet with TP Bus system
- Supporting KNXnet / IP routing and tunneling functions
- Indicated operation and filtering statuses by LEDs
- Connecting KNX IP devices by a standard RJ45 connector directly and also via Ethernet networks
- A rail-mounted device for installation in distribution boards on 35 mm DIN rails
- Integrated bootloader function for remote firmware updates via IP / Ethernet
- Temporary deactivation of filtering by a single button press (Eases commissioning because of short-time access to other lines.)
- No need for an additional power supply

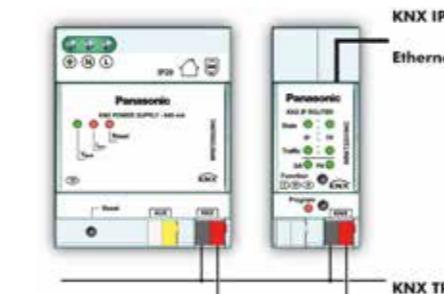
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX IP ROUTER TP	WRKT23315NC

### DIMENSIONS



### CONNECTION



### TECHNICAL DATA

Power input	
Power supply	21...30 V DC SELV
Current consumption	< 20 mA
Housing	
Dimensions (HxWxD)	90 x 36 x 71 mm
Mounting (IEC60715)	35 mm top-hat rail (TH35)
Width in space units	2 modules at 18 mm
KNX bus connection	KNX connector (red/black)
IP connector	Ethernet (RJ45, female)
Weight	68 g
Environmental conditions	
Operating temperature	-20...60 °C
Storage temperature	-40...70 °C
Ambient humidity	5...93 % (non-condensing)
Electrical safety	
Pollution degree (IEC60664)	2
Protection type (IEC60529)	IP20
Protection class (IEC61140)	III
Overvoltage category (IEC60664)	III
Approbation (ISO/IEC14543-3)	KNX-certified
Environmental conditions	
Operating temperature	-20...60 °C
Storage temperature	-40...70 °C
Ambient humidity	5...93 % (non-condensing)
Electrical safety	
Pollution degree (IEC60664)	2
Protection type (IEC60529)	IP20
Protection class (IEC61140)	III
Overvoltage category (IEC60664)	II
Approbation (ISO/IEC14543-3)	KNX-certified

## KNX IP INTERFACE TP



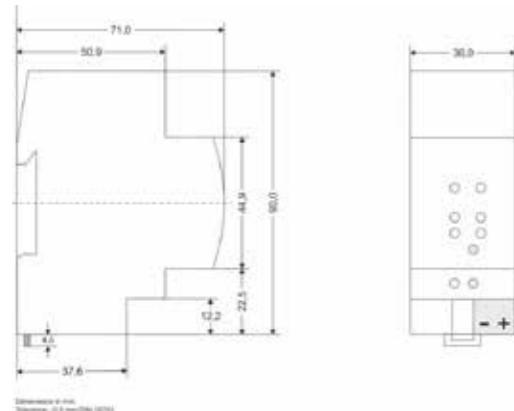
### MAIN FEATURES

- Providing an IP connection to KNX TP
- Suitability for connection of KNX IP devices, a PC with ETS and Ethernet networks
- Support KNXnet / IP tunneling function and set up to four physical addresses
- Indicated operation statuses by LEDs
- Connecting KNX IP devices by a standard RJ45 connector directly and also via Ethernet networks
- A rail-mounted device for installation in distribution boards on 35 mm DIN rails
- Integrated bootloader function for remote firmware updates via IP / Ethernet
- No need for an additional power supply

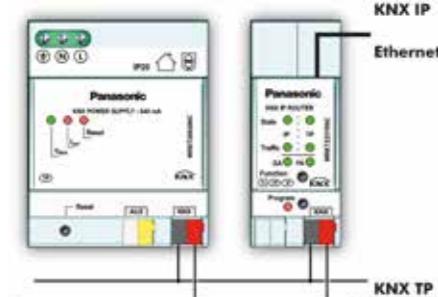
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX IP INTERFACE TP	WRKT23305NC

### DIMENSIONS



### CONNECTION



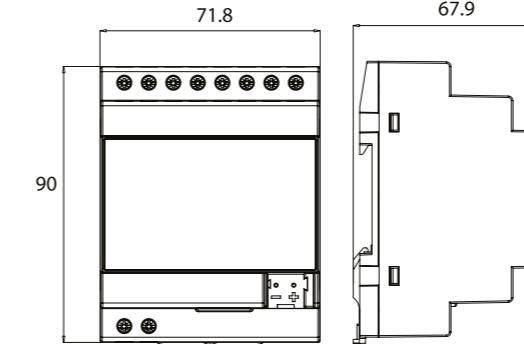
## KNX DALI GATEWAY DL101/ DL102



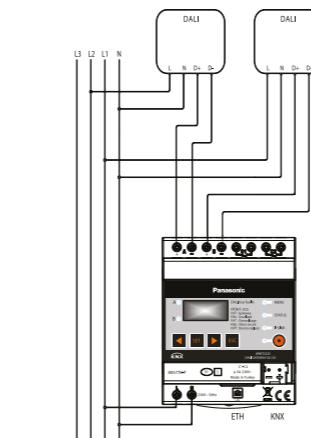
### TECHNICAL DATA

SUPPLY VOLTAGE	
Voltage range	230 V AC, 50/60 Hz
Power consumption total via mains	Max. 8W (at 230 V AC and max. load) (for 1 ch.) Max. 12W (at 230 V AC and max. load) (for 2 ch.)
DALI	
Number of outputs	1 channel
Number of DALI devices	Maximum 64 ballast per output
Protection	Short circuit, Overload, Over-voltage (230VAC)
DALI voltage	18 V DC
No-load voltage	18 V DC
Maximum supply current	250 mA
Guaranteed supply current	230 mA
The DALI control voltage is a functional extra-low voltage (FELV).	
DALI cable lengths (for copper wire)	- 2.5 mm <sup>2</sup> max. 300 m - 1.5 mm <sup>2</sup> max. 300 m - 1.0 mm <sup>2</sup> max. 224 m - 0.75 mm <sup>2</sup> max. 168 m - 0.5 mm <sup>2</sup> max. 112 m
DALI transmission rate	1200 bit / s
KNX	
KNX voltage	DC 21 ... 32 V SELV
KNX current consumption	<5 mA
KNX interface	TP1
Configuration mode	S-Mode
IP	
Connections Speed	10/100 Mbits
RELAY OUTPUT	
Output Contact 1	1 N/O, 2A-277V AC Resistive, 2A 30V DC
Output Contact 2	1 N/O, 2A-277V AC Resistive, 2A 30V DC
BUTTONS AND DISPLAY	
Control buttons	<, SET, >, ESC (Total 4 button)
Display and LED elements	MENU, STATUS 1/2, IP LINK/TRAFFIC, KNX PROG., A, B (only 2 channels) - Total 6 LED Indicators 3 Digit 7-Segment LED Display
ENVIRONMENTAL CONDITIONS	
Protection degree (IEC60529)	IP20
Protection class (IEC61140)	III
Isolation category	Overvoltage category III (IEC60664) Pollution degree 2 (IEC60664)
Temperature range	Operation -5...+45 °C Storage -10...+55 °C Transport -25...+70 °C
Humidity	5...93% (non-condensing)
MECHANICAL DESIGN	
Dimensions (HxWxD)	90mmx71.8mmx65.8mm
Mounting (IEC60715)	35 mm top-hat rail (TH35)
Mounting width	DIN rail 72mm (4 modules)
KNX bus connection	KNX connector (243-211 Wago)
IP Connector	Ethernet (RJ45, female)
Connection type (Power/Relay/DALI)	Screw terminal Single wire: 1.5mm <sup>2</sup> ...4mm <sup>2</sup> or 2x1.5mm <sup>2</sup> , 2x2.5mm <sup>2</sup> Stranded wire without ferrule: 0.75mm <sup>2</sup> ...4mm <sup>2</sup> Stranded wire without ferrule: 0.5mm <sup>2</sup> ...2.5mm <sup>2</sup>
Weight	0.22 kg

### DIMENSIONS



### CONNECTION



## KNX INPUT MODULE 20 GANG DRY-CONTACT IO100 and KNX INPUT MODULE 20/8 GANG DRY-CONTACT/230V IO101



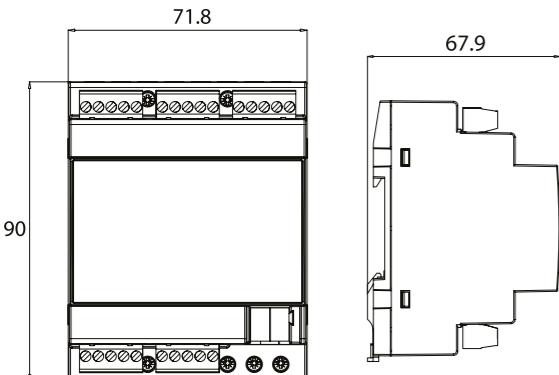
### MAIN FEATURES

- LEDs on the front of the device to indicate the signal status of the inputs.
- Manual operation buttons to simulate and override the status of the inputs.
- 20 x Dry-contact inputs.
- 8 x 10-230V AC/DC inputs (Only in IO101).
- 4 x virtual inputs.
- Vout port can be used to supply an external device with 5V up to 75 mA.
- Switching and dimming lighting with one or two inputs.
- Controlling blinds and shutters with one or two inputs.
- Calling and saving scenes.
- Sending up to 3 values of any type (percentage - HVAC mode - temperature - 1, 2 or 4-byte values etc.).
- Distinction between short and long presses - single and double presses of a connected push button.
- Inputs signals can be monitored, delayed, locked, sent to the bus and simulated via an object.
- 32 auxiliary functions. The type of each function can be selected from 14 different types (Sequencer, Counter, Scene actuator, Filter, Converter, Logic gate, Presence detector controller, Staircase controller ...). The inputs of some of these functions can be assigned to be internal inputs or external objects.

### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX INPUT MODULE 20 GANG DRY-CONTACT IO100	WRKT22245NC
KNX INPUT MODULE 20/8 GANG DRY-CONTACT/230V IO101	WRKT22255NC

### DIMENSIONS



### TECHNICAL DATA

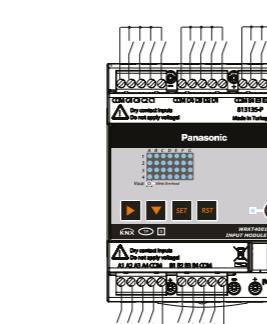
Power
Operating voltage DC 21-32 V (from KNX bus)
Maximum current consumption - Vout disabled 20mA from KNX bus
Maximum current consumption - Vout enabled 40mA from KNX Bus
Environmental conditions
Ambient temperature -5 C ...+45 C
Storage temperature -10 C ... +55 C
Ambient humidity 5...93% (non-condensing)
Housing
Dimensions (HxWxD) 90mmx71.8mmx67.9mm
Mounting (IEC60715) 35 mm top-hat rail (TH35)
Mounting width DIN rail 72mm (4 modules)
KNX bus connection KNX connector (243-211 Wago)
Weight For IO100: 136.75 gr For IO101: 209.45 gr
10-230V Input connector (only IO 101) 16x Screw Terminals
Dry Contact Input connector 5x 5pin 3.81mm Pluggable Terminals
Electrical safety
Protection type (IEC60529) IP 20
Pollution degree (IEC60664) 2
Protection class (IEC61140) II
Overvoltage category (IEC60664) III
Standards
EMC, LVD, KNX TS EN 50428, TS EN 60669-2-1, EN 50090

Dry contact inputs
Scanning voltage 3.3V
Scanning current 10uA
Scanning current at switch on 400uA
Maximum cable length 100 meters
Minimum cable cross section 1mm <sup>2</sup>
Vout
Output voltage 5V ± 10%
Maximum current 75mA
Maximum cable length 100 meters
Minimum cable cross section 1mm <sup>2</sup>

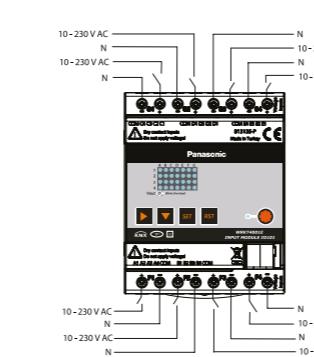
10-230V AC / DC inputs
Permissible voltage range 10-230V AC/DC
Maximum input current 1mA
Signal level for 0 signal 0...3 V AC/DC
Signal level for 1 signal 8...230 V AC/DC
Maximum cable length 100 meters
Minimum cable cross section 1mm <sup>2</sup>

### CONNECTION

#### Dry Contacts Connection



#### 10-230V AC Connection



### POWER SUPPLY & INTERFACE

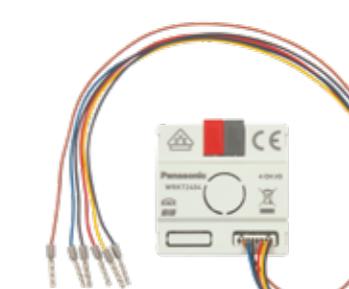
Binary Inputs for flush-mounted sockets 2/4/6 way

#### 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)

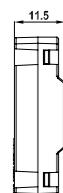
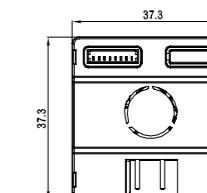
### TECHNICAL DATA

GENERAL	Inputs
Power supply Bus voltage	Quantity
Ambient temperature -5 °C...+45 °C	2 Way: 2 outputs 4 Way: 4 outputs 6 Way: 6 outputs
Current draw from bus voltage Max 10mA	Use Low current LEDs without series resistor
Bus connection Bus terminal	Output current Maximum 1mA / output
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 Binary Input 2-Way	WRKT24025NC
KNX Binary Input 4-Way	WRKT24045NC
KNX Binary Input 6-Way	WRKT24065NC

### DIMENSIONS

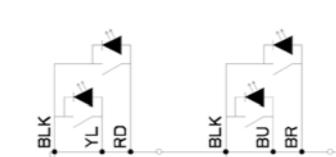


### CONNECTION

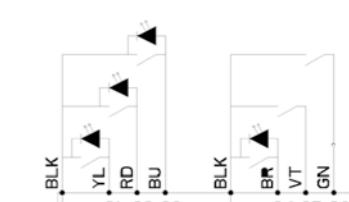
#### KNX Binary Input 2-Way



#### KNX Binary Input 4-Way



#### KNX Binary Input 6-Way



## KNX IR INTERFACE IR 100



### MAIN FEATURES

- Small size 37 x 37 x 11.7 mm; can fit in standard electrical box
- Ability to use 3 ports as transmitter and 1 port as transmitter or receiver of the device
- Ability to use 100 channels to transfer commands from KNX to IR or from IR to KNX
- Ability to send an IR code repeatedly with configurable time delays from KNX to IR channels
- Use of IR to KNX channels for control lights, blinds and thermostats and call scenes
- Ability to send multiple IR codes sequentially with 16 macros
- Control of 4 AC split units with by using KNX commands with 4 AC modules
- Use of logic gate, sequencer / counter, converter, scene actuator or send after reset function with 8 auxiliary functions
- Teaching IR codes and loading AC configuration with a Device Configuration App (DCA) in ETS
- Teaching IR code to up to 250 devices

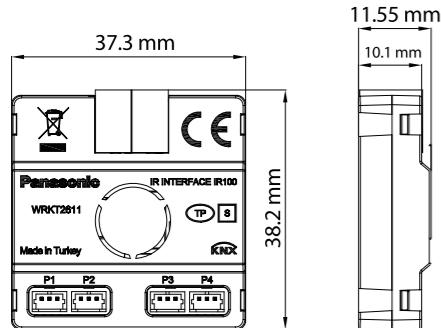
### TECHNICAL DATA

Supply voltage	21 ... 32 V DC via KNX Bus
Operating temperature	-5°C ... +45°C
Type of protection	IP 20 to EN60529
Safety class	III to IEC 60664-1
IR transmitter maximum transmitting distance (*)	5.5m
IR transmitter transmitting angle (*)	40°

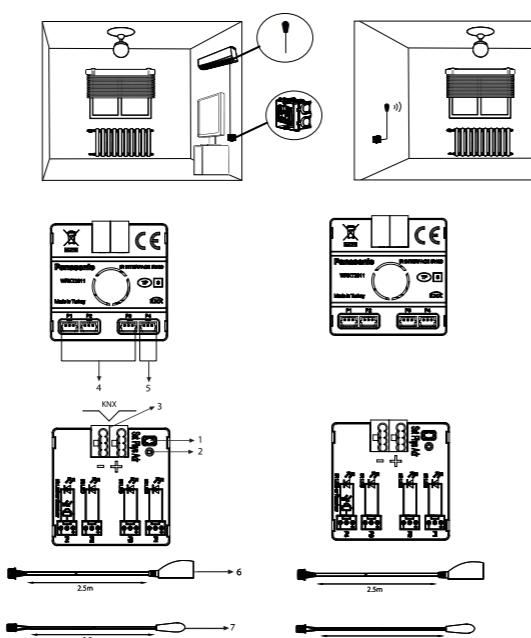
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX IR INTERFACE IR100 [Total]	WRKT2611NC
KNX IR TRANSMITTER	WRKT26401NC
KNX IR RECEIVER	WRKT26411NC

### DIMENSIONS



### CONNECTION



## ACTUATOR



Actuator



## ACTUATOR Mix Actuators [Switching/Blind/Fancoil/Heating/Logic]

KNX MIX ACTUATOR MX124-16A



KNX MIX ACTUATOR MX120-16A



KNX MIX ACTUATOR MX112-16A



KNX MIX ACTUATOR MX104-16A



### 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.



KNX MIX ACTUATOR MX116-16A



KNX MIX ACTUATOR MX108-16A



## ACTUATOR Mix Actuators [Switching/Blind/Fancoil/Heating/Logic]

### TECHNICAL DATA

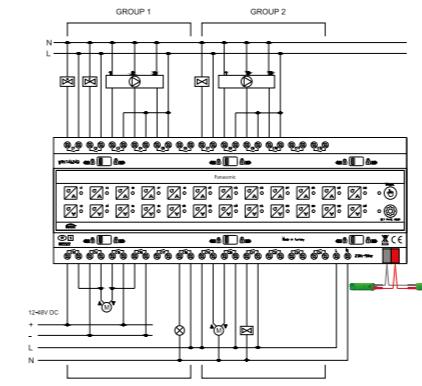
KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21-32V DC
Mains supply	230V AC
Mains frequency	50Hz
Installation type	DIN rail
Mounting width	4 Channels – 72 mm 8/12 Channels – 144 mm 16/20/24 Channels – 252 mm
Ambient temperature	-5 °C ... +45 °C
Storage temperature	-10 °C ... +55 °C
Transportation 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 4 mm <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: 0.5 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
Output contact type	NO, potential-free µ-contact, monostable
Switching Voltage AC	0-230V AC ±10%, 50/60Hz
Switching capacity at 230V AC	16A cos = 1 3A cos = 0,6

Loads per output	
Resistive load	3600W
Capacitive load	max. 21uF at 16A
Motors (shutter or fan)	600W
Max. inrush current	80A / 20 ms
Lamp Loads	
Incandescent / Halogen load	2000W
230V halogen lamps	1800W
LV halogen lamps with Tronic transformers	800W
LV halogen lamps with inductive transformers	800VA
Fluorescent lamp load (conventional) parallel-corrected	2 x 58W (7 µF), 3 x 36W (4.5 µF), max. 120W (14 µF)
Fluorescent lamp load (conventional) not corrected	14 x 58W, 20 x 36W, max. 1000VA
Fluorescent lamp (EB - Electronic ballast)	3 x 36W, 2 x 58W, max. 120W
Energy saving lamps	6 x 7W, 4 x 11W, 2 x 15W, 2 x 20W, 2 x 23W

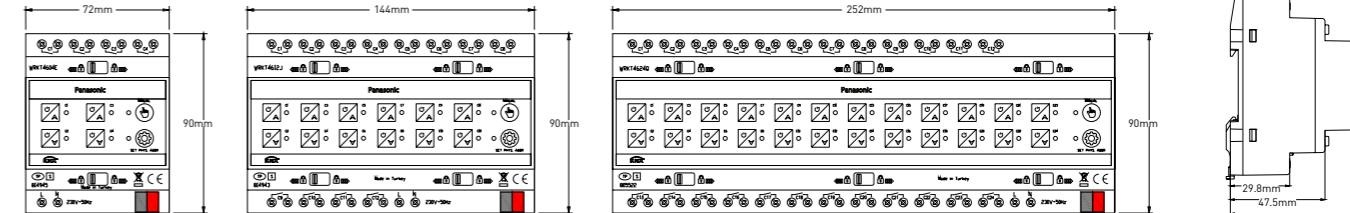
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX MIX ACTUATOR MX-104 16A	WRKT4604E5NC
KNX MIX ACTUATOR MX-108 16A	WRKT4608J5NC
KNX MIX ACTUATOR MX-112 16A	WRKT4612J5NC
KNX MIX ACTUATOR MX116-16A	WRKT4616Q5NC
KNX MIX ACTUATOR MX120-16A	WRKT4620Q5NC
KNX MIX ACTUATOR MX124-16A	WRKT4624Q5NC

### CONNECTION



### DIMENSIONS



## ACTUATOR Switching/Blind Actuators

KNX Switching/Blind Actuator 12/6 Gang



KNX Switching/Blind Actuator 8/4 Gang



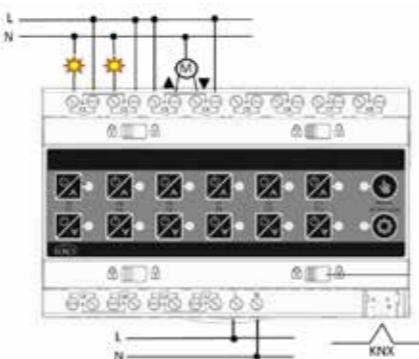
KNX Switching/Blind Actuator 4/2 Gang



### MAIN FEATURES

- On-site operation possible on the device (e.g. for installation testing), drives also possible without a bus voltage
- Status LED for each channel
- High switching capacity (16A with high-inrush current capacity)
- Different channel functions can be selected: Switching, On/Off Delay, Pulse, Staircase, Roller Shutter, Venetian Blind
- Possible integration of the channels into a maximum of 8 scenes
- Adjustable response to bus failure and restoration of the bus/mains power
- Central UP/DOWN object
- 3 safety objects and function
- 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

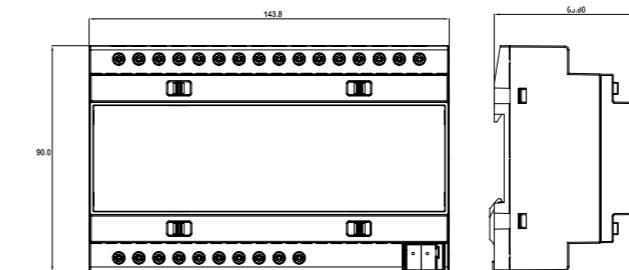
KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21-32V DC
Mains supply	230V AC
Mains frequency	50/60Hz
Installation type	DIN rail
Mounting width	12/6 Channels – 144 mm (8 modules) 8/4 Channels – 144 mm (8 modules) 4/2 Channels – 72 mm (4 modules)
Ambient temperature	-5 °C ... +45 °C
Storage temperature	-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 4 mm <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: 0.5 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
Output contact type	NO, potential-free µ-contact, monostable
Switching Voltage AC	0-230V AC ±10%, 50/60Hz
Switching capacity at 230V AC	16A cos = 1 3A cos = 0.6

Loads per output	
Resistive load	3600W
Capacitive load	max. 21uF at 16A
Motors (shutter or fan)	600W
Max. inrush current	80A / 20 ms
Lamp Loads	
Incandescent / Halogen load	2000W
230V halogen lamps	1800W
LV halogen lamps with Tronic transformers	800W
LV halogen lamps with inductive transformers	800VA
Fluorescent lamp load (conventional) parallel-corrected	2 x 58W (7 µF), 3 x 36W (4.5 µF), max. 120W (14 µF)
Fluorescent lamp load (conventional) not corrected	14 x 58W, 20 x 36W, max. 1000VA
Fluorescent lamp (EB - Electronic ballast)	3 x 36W, 2 x 58W, max. 120W
Energy saving lamps	6 x 7W, 4 x 11W, 2 x 15W, 2 x 20W, 2 x 23W

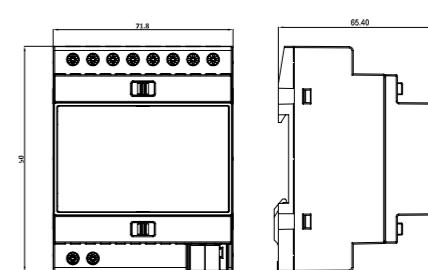
### PRODUCT CODES

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

## KNX 1-10 V DIMMER CONTROL UNIT 4 GANG GV



The device depending on the product code varies.

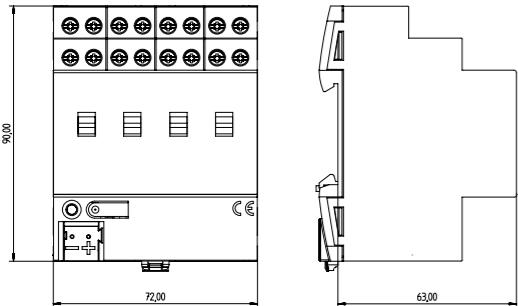
### MAIN FEATURES

- Switching the light
- Relative dimming
- Absolute dimming
- Status report
- Setting 15 scenes
- Staircase lighting function
- Bus recovery (or reset) function
- Preset value and modify preset value functions
- Switch/relative dimming via manual buttons

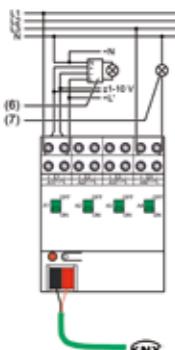
### PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX 1-10 V DIMMER CONTROL UNIT 4 GANG GV	WRKT5144J5NC
KNX 1-10V CONTROL UNIT 4 GANG	WRKT5104E5NC

### DIMENSIONS



### CONNECTION



### TECHNICAL DATA

Power Supply	
Operating voltage	21~30V DC, via the EIB bus
Current consumption	<12mA
Power consumption	<360mW
Output	
Output voltage	1~10V DC(passive), max.100mA per output
Switch current	16A/250V AC
Connections	
EIB / KNX	Bus connection terminal (black/red)
Outputs	Using screw terminals
Operation and display	
Red LED and button	For assigning the physical address
Green LED flashing	For displaying the application layer running normally
Temperature	
Operation	-5°C ... + 45 °C
Storage	-25 °C ... + 55 °C
Transport	-25 °C ... + 70 °C
Mounting	
Standard	35mm DIN rail installation

## ACTUATOR Dimming Actuators

### KNX Dimming Actuator

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



### 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.

### TECHNICAL DATA

KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21-32V DC
Mains supply	230V AC
Mains frequency	50Hz
Installation type	DIN rail
Mounting width	4 Channels – 144 mm (8 modules) 2 Channels – 72 mm (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 4 mm <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: 0.5 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
Max Loads	DM102 [2 channels] DM104 [4 channels]
Incandescent & Halogen HV	300W (200W in inductive mode) 250W (200W in inductive mode)
Halogen LV (Ferromagnetic Transformer)	300VA (Capacitive mode not allowed) 250VA (Capacitive mode not allowed)
Halogen LV (Electronic Transformer)	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)

\* The maximum load declaration is under ambient temperature 25°C, and maximum mains voltage 230V AC / 50Hz.  
If ambient temperature is over 25°C, the maximum load should be reduced.

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

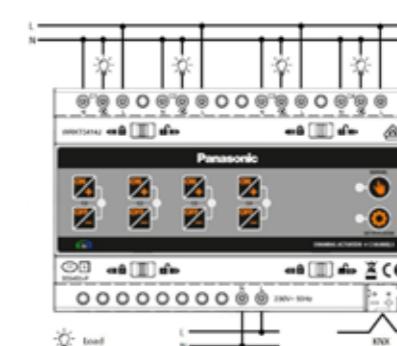


- LED channel status indicator for each channel
- Manual operation on device (even without bus connection)
- Dimming output: 300W per channel for 2 channels version, 250W per channel for 4 channels version.
- Automatic load type detection (can be deactivated)
- For R, L and C load

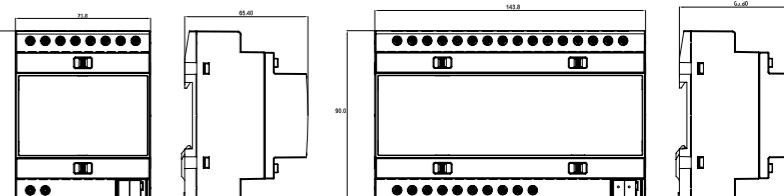
### PRODUCT CODES

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

### CONNECTION



### 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 heating and cooling
- Can support the operating modes as comfort, night/standby, frost/heat protection, presence and window status.

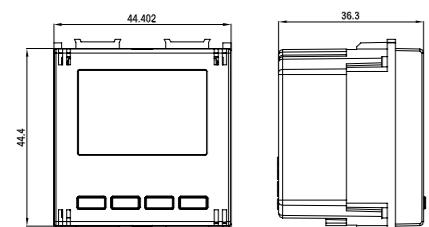
- Operation mode and temperature set value can be changed by user via buttons.
- Can be located into all frames of Thea Modular Series; Optima, Sistema and Ultima

#### TECHNICAL DATA

	Modular Thermostat
Power supply	Bus voltage
Ambient Temperature	-5°C ... +45°C
Current draw from bus voltage	Max 10mA
Bus connection	Bus terminal
Type of protection	IP20 to EN 60529

#### DIMENSIONS

### KNX Modular Thermostat



## SENSOR & DETECTOR

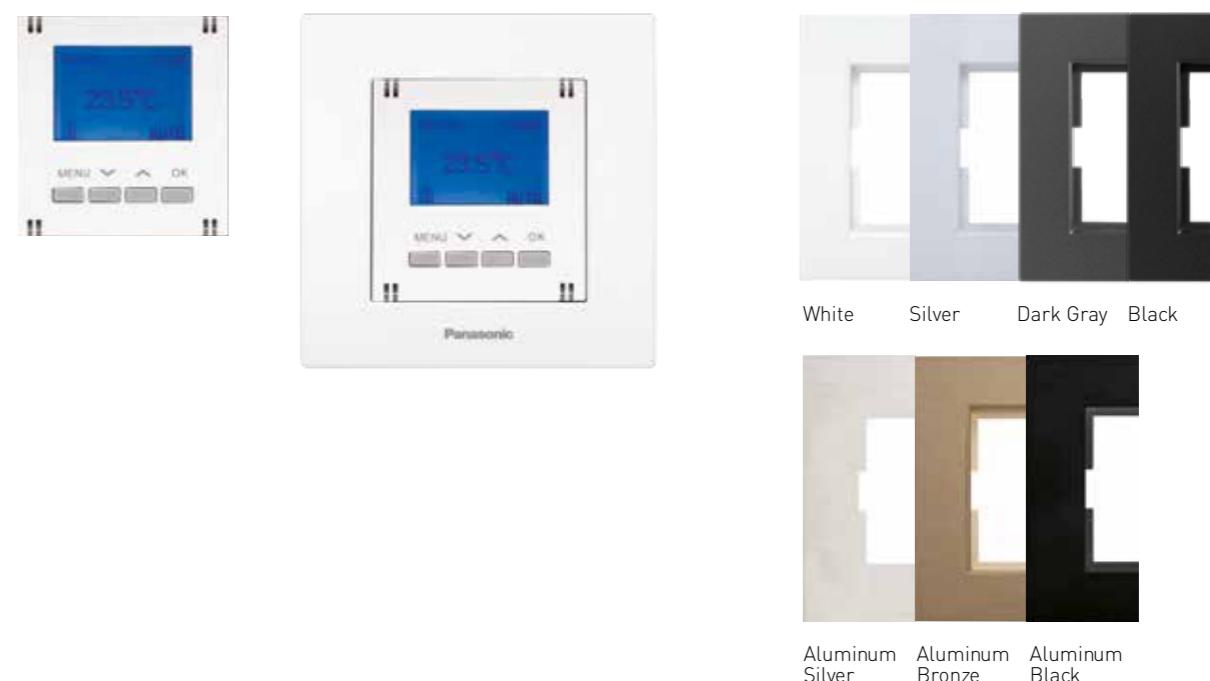
### KNX Modular Thermostat

#### COLOR ALTERNATIVES



#### KNX Standard Thermostat

#### COLOR ALTERNATIVES



#### PRODUCT CODES

COLOR	PRODUCT CODES
KNX Modular Thermostat White	WRKT33105WH
KNX Modular Thermostat Beige	WRKT33105BG
KNX Modular Thermostat Metallic White	WRKT33105MW
KNX Modular Thermostat Anthracite	WRKT33105AN
KNX Modular Thermostat Dark Gray	WRKT33105DG
KNX Modular Thermostat Dore	WRKT33105DR
KNX Modular Thermostat Black	WRKT33105BL

## SENSOR & DETECTOR

### KNX Ceiling Type Presence Detector



Product Version	KNX Ceiling Type Presence Detector A100	KNX Ceiling Type Presence Detector A100-T	KNX Ceiling Type Presence Detector A100-TA
Product Features			
Presence detection	✓	✓	✓
Brightness measurement	✓	✓	✓
Temperature measurement	-	✓	✓
Humidity measurement	-	✓	✓
Air Quality measurement	-	-	✓

### MAIN FEATURES

- The PIR sensor on the product has a moving lens (mechanical adjustment) and a shade ring allow users to easily customize the coverage area and detection range.
- RGB LED can be used to indicate movements or/and one of the measurements value.
- Mixed light measurement suitable for fluorescent (FUPUESL), halogen/incandescent lamps and LEDs.
- KNX programming button of the product is under the front cover for easy access.
- Product can be flush mounted installed in ceilings with clamps.
- Ceiling installation is also possible with surface-mounted box.
- 8 independent channels can be used for presence or/and brightness dependent control for lighting, HVAC control etc...
- Test mode for checking function and detection area
- All sensors measurements can be calibrated before ETS programming by parameters or after ETS programming by communication objects.
- Alarm function for measurements

- Presence dependent channels can work in parallel (Master/ Slave or Master/Master)
- Short presence function reduces the time delay when device detects movement briefly
- Brightness switching value or set point value can be set in lux before ETS programming by parameters or after ETS programming by communication objects
- Channel's presence and brightness sources can be from internal or/and external sensors
- Independent lock function for each channel
- Channels can be programmed to work with manual switching/dimming (by push buttons for example).
- Participation to scenes

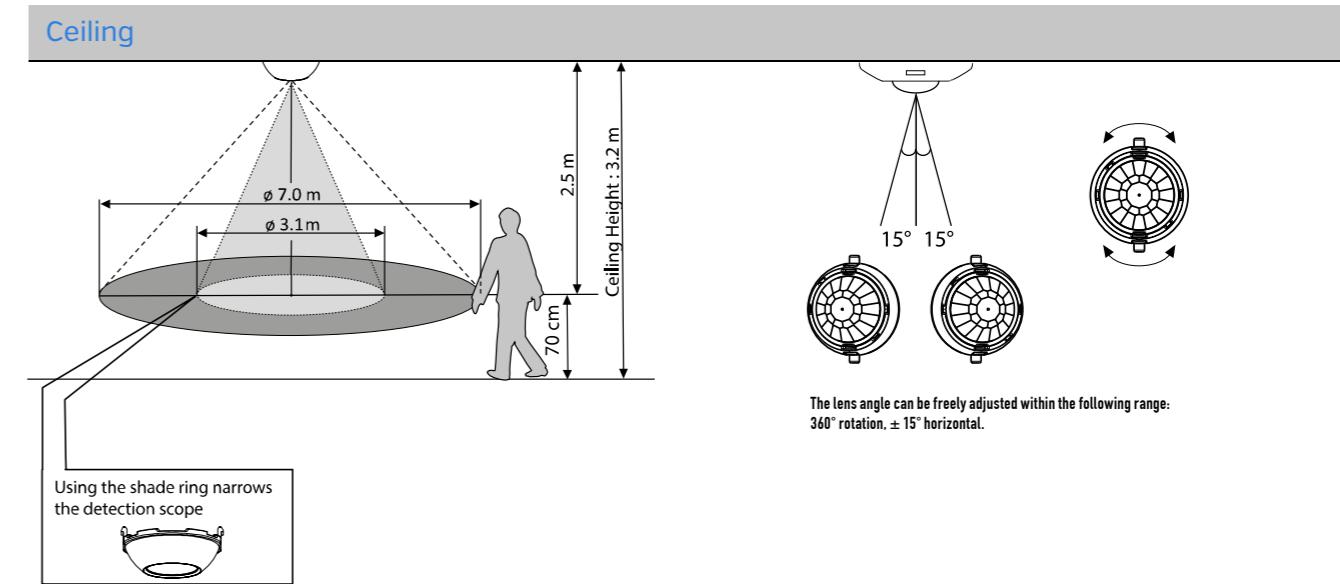
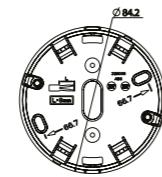
### TECHNICAL DATA

	KNX Ceiling Type Presence Detector
Supply voltage	21 ... 32V DC via KNX Bus
Ambient temperature	-5°C ... +45°C
Type of protection	IP20 to EN60529
Safety class	III to IEC 60664-1
Detectable movement speed	0.3 m/s ~ 1.0 m/s
Detectable temperature difference	More than 4°C
Brightness measurement	1 ... 3000 lux
Temperature measurement	0°C ... 45°C
Relative humidity	0% ... 100%
Air Quality, Equivalent carbon dioxide (eCO <sub>2</sub> )	400 ppm ... 8192 ppm.

### 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
Surface Mount Installation Box	WRKT8300-XXX

### DIMENSIONS

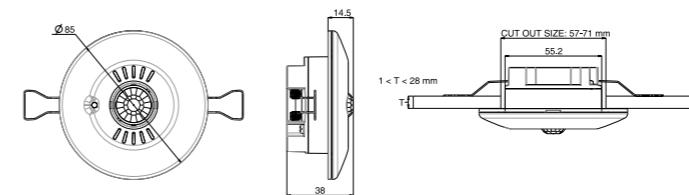


- The scope of detection is different depending on the height of the ceiling (unit:m)
- The shade ring can be used if the detection range of the motion sensor is wanted to be reduced. It can be mounted to the device by pushing it towards the lens.

Ceiling height	2.7 m	3.2 m	4.2 m
Guideline height for detection scope setting	2.0 m	2.5 m	3.5 m
Diameter of detection scope without shade ring	Ø 5.6 m	Ø 7.0 m	Ø 9.8 m
Diameter of detection scope with shade ring	Ø 2.5 m	Ø 3.1 m	Ø 4.4 m

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

### DIMENSIONS



TOUCH THE FUTURE...



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MULTIS brings together technology and human touch  
for higher level of comfort and ease.  
Touch MULTIS and meet the next generation comfort...

## NOTES

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