Panasonic



PRODUCT CATALOGUE

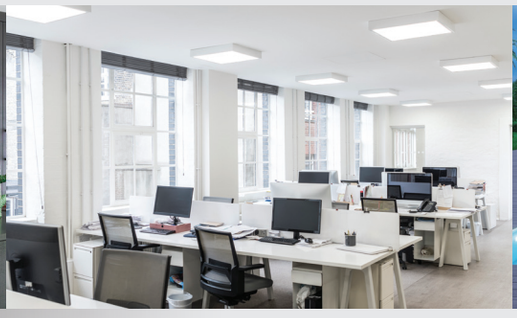
BUILDING AUTOMATION SYSTEMS

KNX

Panasonic

. 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.









- Illumination
- Monitoring Systems
- Roller Blind - Curtain
- Remote Access
- Security Systems
- Intercom
- Heating, Ventilation, Air Conditioning Control



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.

Panasonic

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.

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.

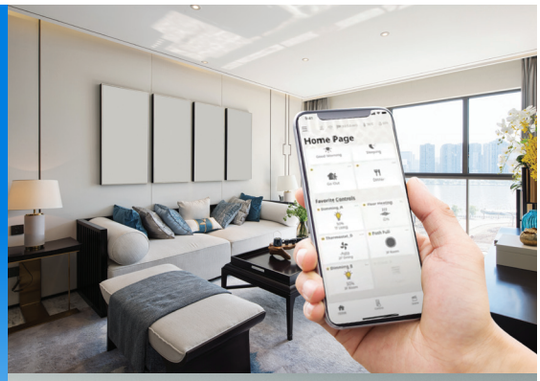


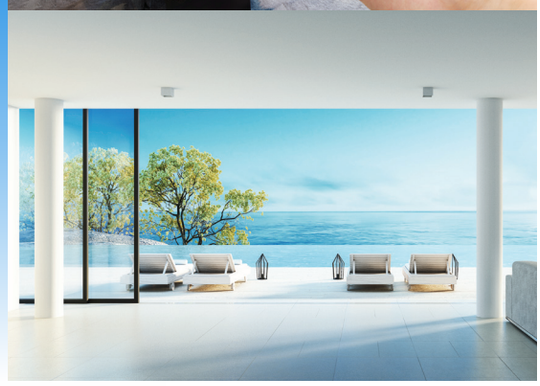


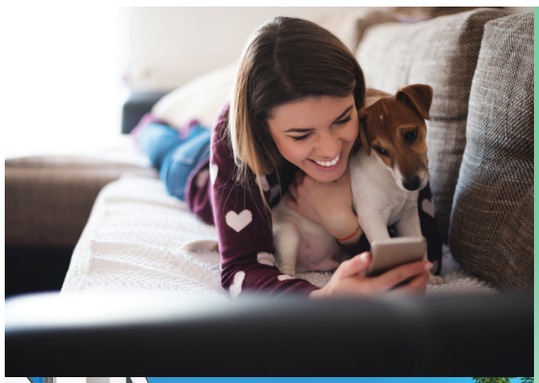
Luxury

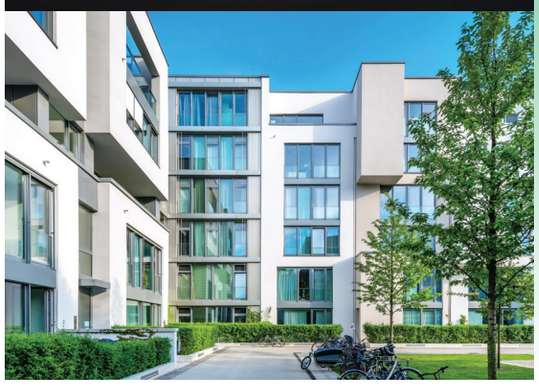
Beyond Luxury... It's Panasonic.
Who wouldn't want their home to be more relaxing, peaceful and comfortable? Set your imagination free and meet Panasonic and its high class atmosphere.

- 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.









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.

Panasonic

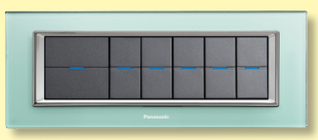
User Interface

NEW KNX MULTI FUNCTIONAL SWITCH



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.


Thermostat with KNX switches
Inox


KNX switches
Light green


Red claret

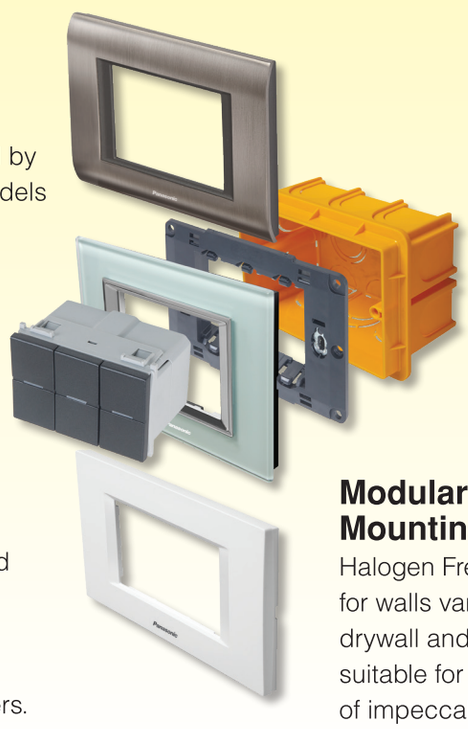

Inox


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.

Panasonic Touch Panel

Stylish and functional...
It's Panasonic Touch Panel.

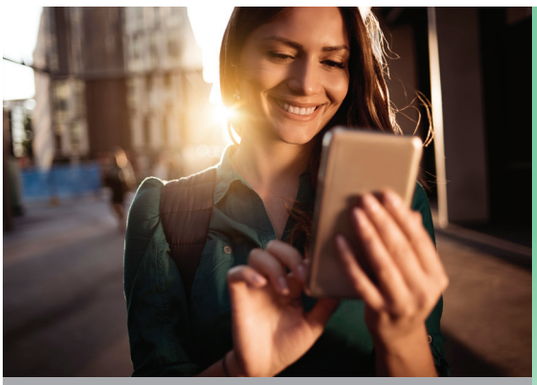
Everything is at the fingertips with Panasonic Touch Panel. Panasonic Touch Panel is designed as wall mounted tablet PC for home automation systems. It allows you to control each point of your home automation system from the interfaces customizable to the user's request. With its interface that you can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

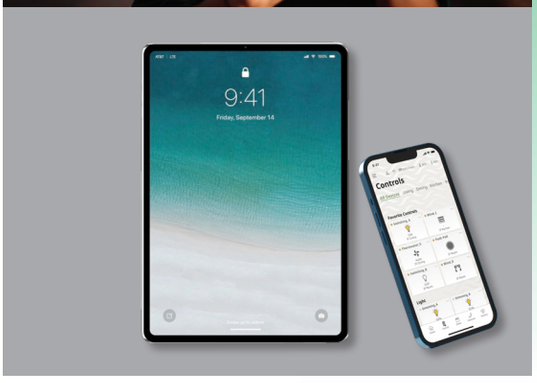
- KNX devices can be controlled via touch panel
- Connection with CCTV
- Scene control
- Connection with mobile phone and tablet











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

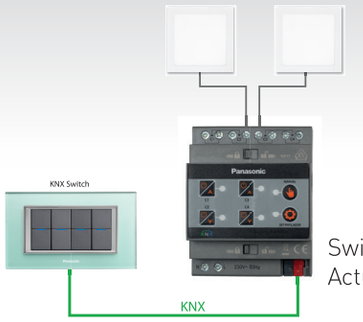




ALL ON / OFF

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.





Switching / Blind Actuator

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.

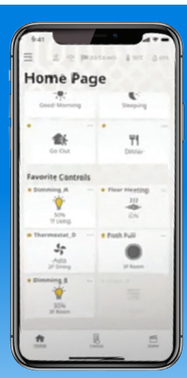


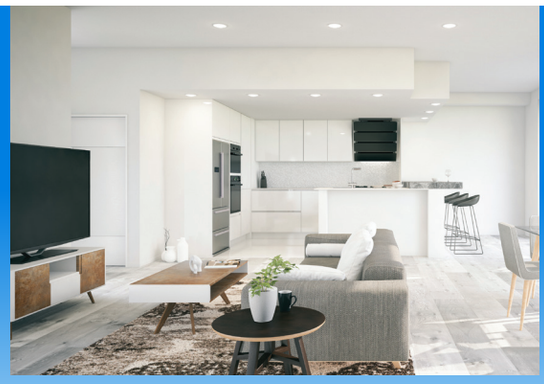


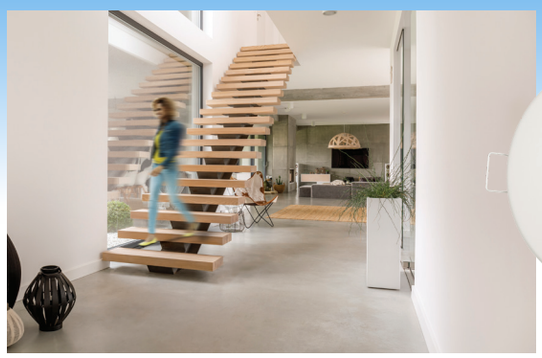
Panasonic combines technology with human touch...

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.



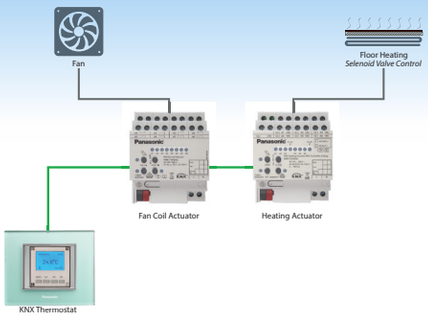


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HVAC Control







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.

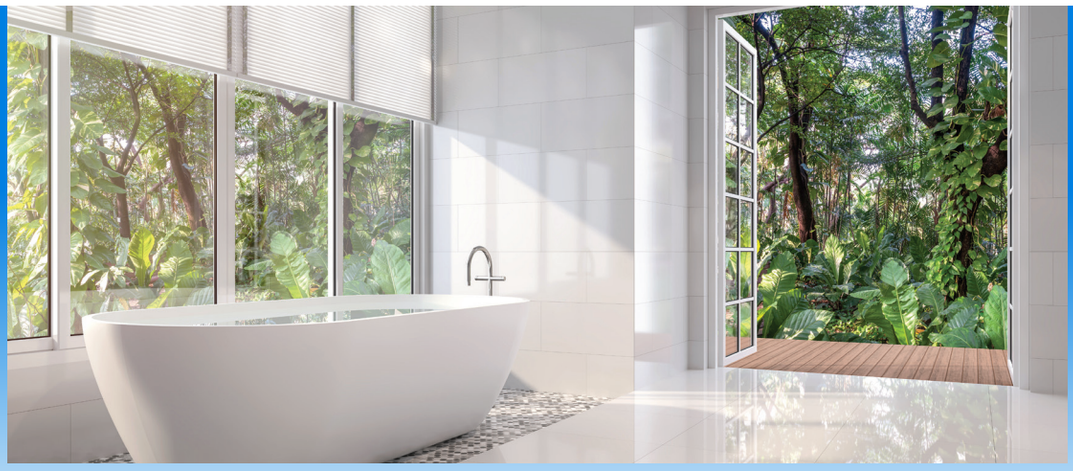
PLEASANT VENTILATION

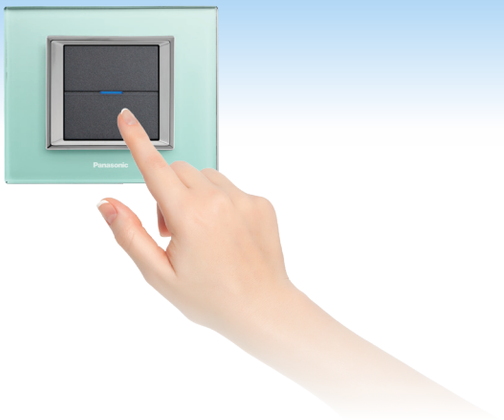
Improves the air quality of the room by activating ventilation using the presence detectors information.

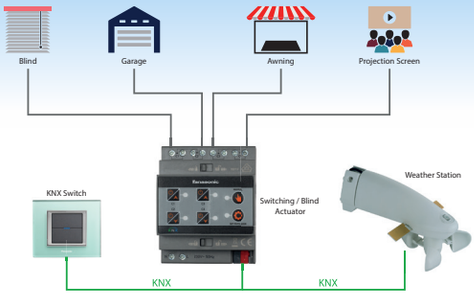
SENSOR & TIMER CONTROL

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.

Panasonic

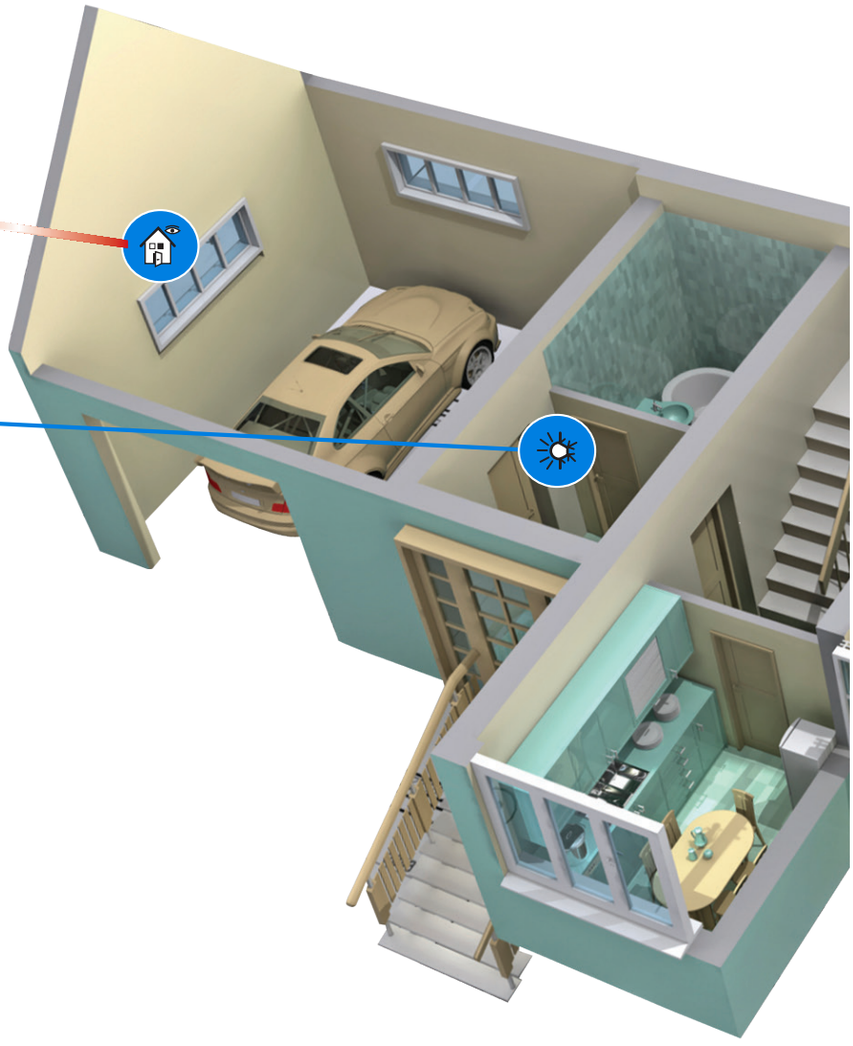
Create your own world with Panasonic...

Security

- Connection with CCTV
- Connection with sensor

HVAC

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



Illumination

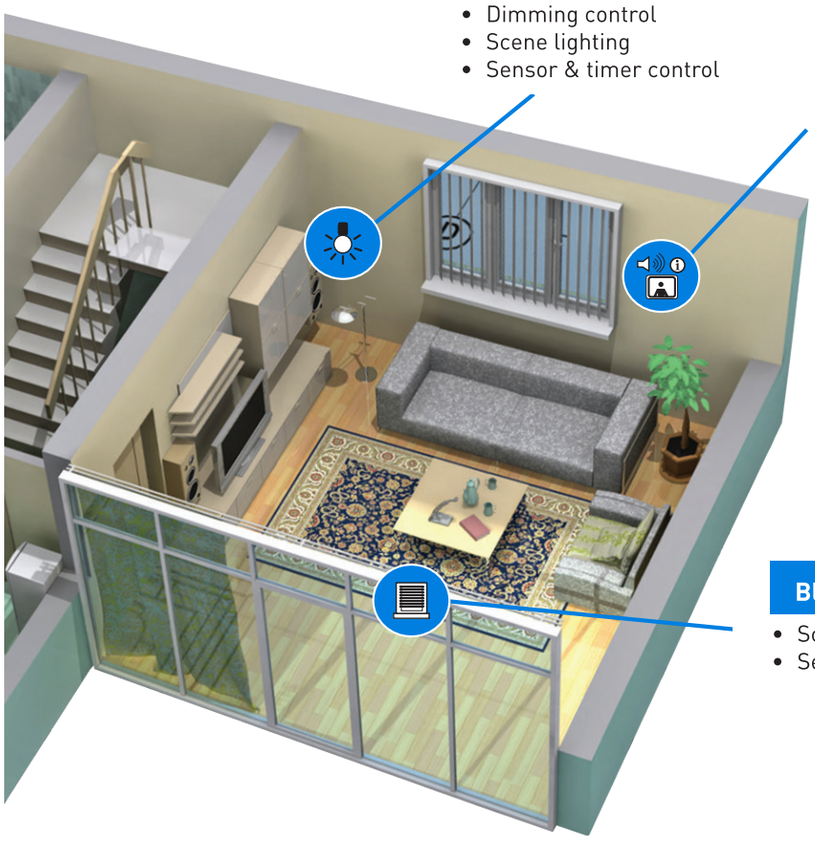
Roller Blind - Curtain

Security Systems

Heating, Ventilation, Air Conditioning Control

Monitoring Systems

Remote Access



Lighting Control

- All on / off
- Dimming control
- Scene lighting
- Sensor & timer control

Connection with mobile

- Smartphone
- Tablet

Internet

Blind

- Scene control
- Sensor & timer control

Automations / Remote Access

- Logical Functions
- Timed Functions
- System Supervision
- Remote Control

Intercom

Panasonic

Product range of PANASONIC







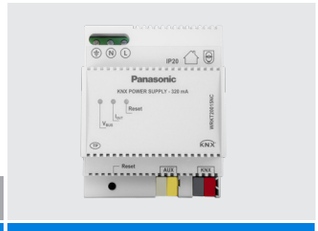
Page 16-19

Touch Panel



Page 20-47

Switch



Page 48-58

Power Supply & Interface



Page 59-67

Actuator



Page 68-73

Sensor & Detector

Panasonic

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.



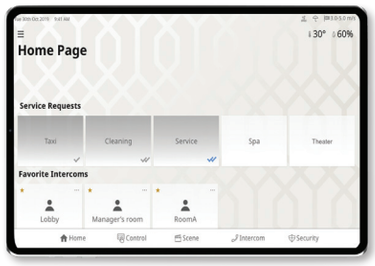


Camera Display

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



MAIN FEATURES

- Smart Home Functions
  - Lighting control
  - Dimming control
  - RGB control
  - Shutter / Blind control
  - Thermostat control
- Scene Functions
  - Individual scene create
  - Time dependent scene management
  - KNX scene control
- Intercom Integration
  - Voice and video call
  - SIP support
  - Missed call log with video
  - Quick dial list
- Alarm and Security
  - Magnetic, smoke, earthquake, flooding, gas leakage, motion detector integration
  - NO and NC detector support
  - Detector fake alarm barrier
  - At home and outside alarm functions
  - IP camera visualization
- Remote Control Apps (iOS®/Android™)

PRODUCT CODES

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

TECHNICAL DATA

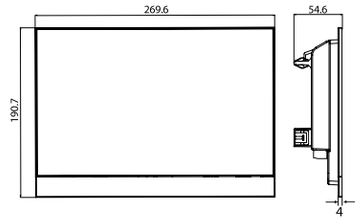
Hardware Features	
Operating Voltage	12-24V
Power Consumption	18W or less
Recomended Power Supply and Permissible cable length	12V - 4,5A (per device)
	Maximum 100 m at φ1.6 or 2.0 mm^2
Operating Temperature	-5~50°C
Relative Humidity	0-90 %
LCD Size	10 Inch
	1024x600
OS	Linux®
Interface	1 x 100 Mbit/s Ethernet port (LAN1) 1 x 100 Mbit/s Ethernet port (LAN2)
	1 x USB
	3 x Digital Inputs / 2 x Dry Contact Outputs
Ethernet Standarts	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^2

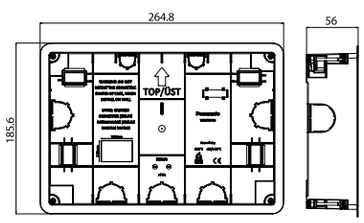
Outputs				
	Endurance	Condition	Inrush Current	Consumption
Resistance load	50,000 times	5A L/R =0	-	150 W
Inductive load	20,000 times	5A L/R =7 ms	5A	120 W
Motor load	6,000 times	1.5A, cosφ=0.4	15A / 80ms cosφ=0.7	330 VA

DIMENSIONS

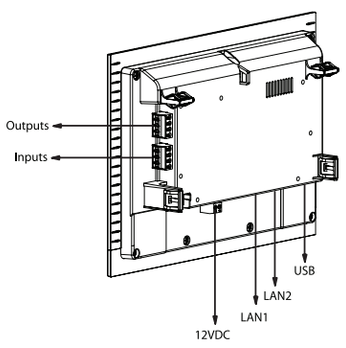
• Touch Panel Device Front and Side Dimensions



• Mounting Box Front and Side Dimensions



CONNECTION



Panasonic

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





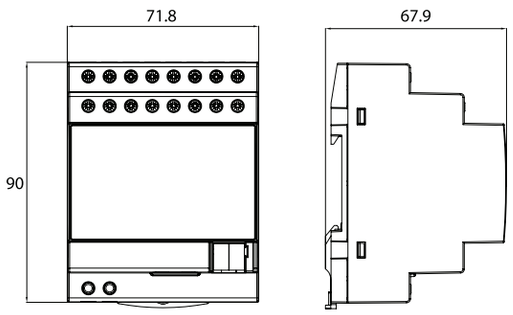
MAIN FEATURES

- 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
- ETS 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

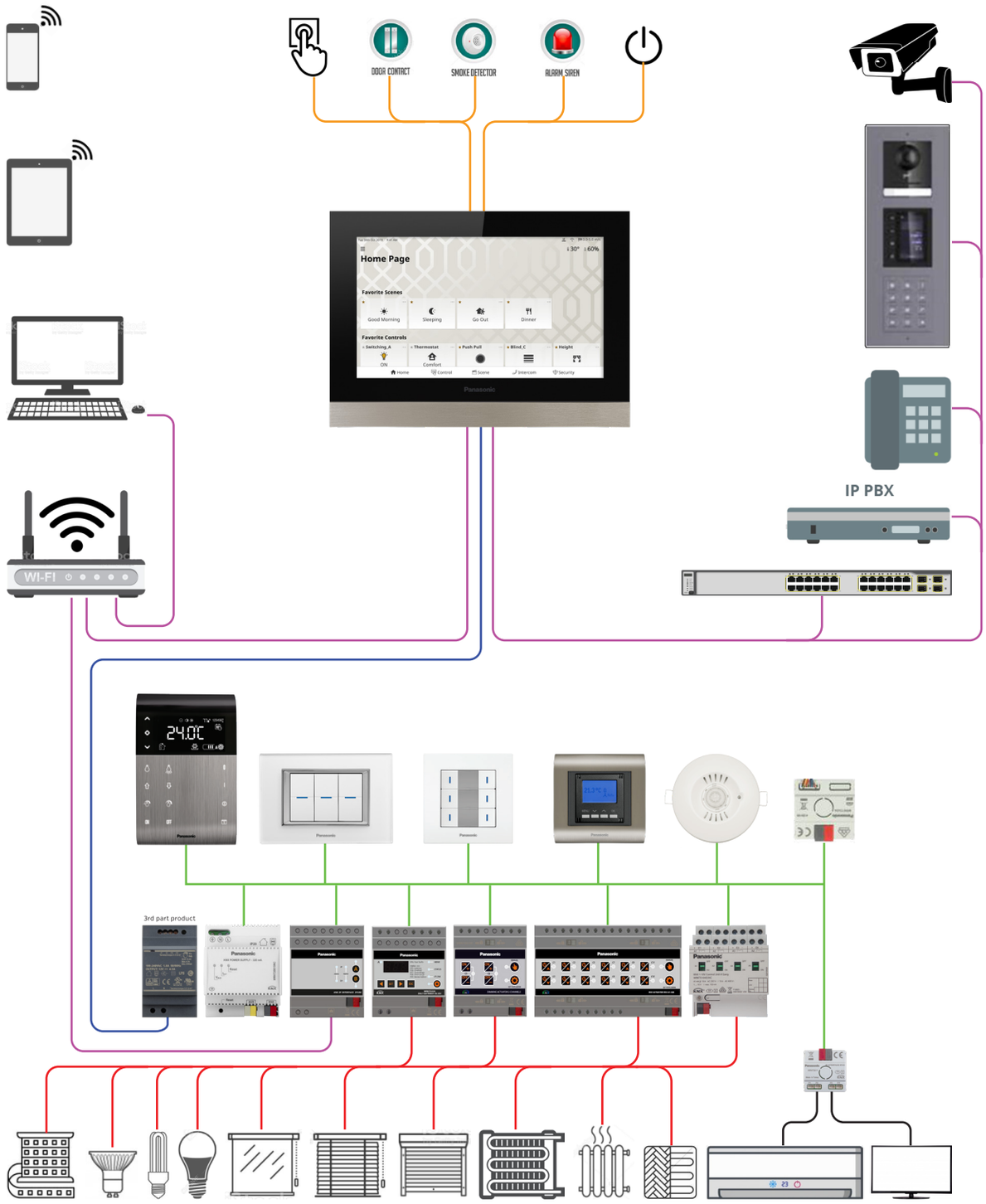
DIMENSIONS



TECHNICAL DATA

Power	
Operating voltage	DC 21-32 V (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)	90 mm x 71,8 mm x 65,8 mm
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)
Input / Output (only IP164)	
Outputs	4 Latch Relay Outputs (16A-230VAC Resistive) (1200W-230VAC Tungsten)
Inputs	6 Dry Contact Digital Inputs
Electrical safety	
Protection type (IEC60529)	IP 20
Pollution degree (IEC60664)	2
Protection class (IEC61140)	II
Overvoltage category (IEC60664)	III

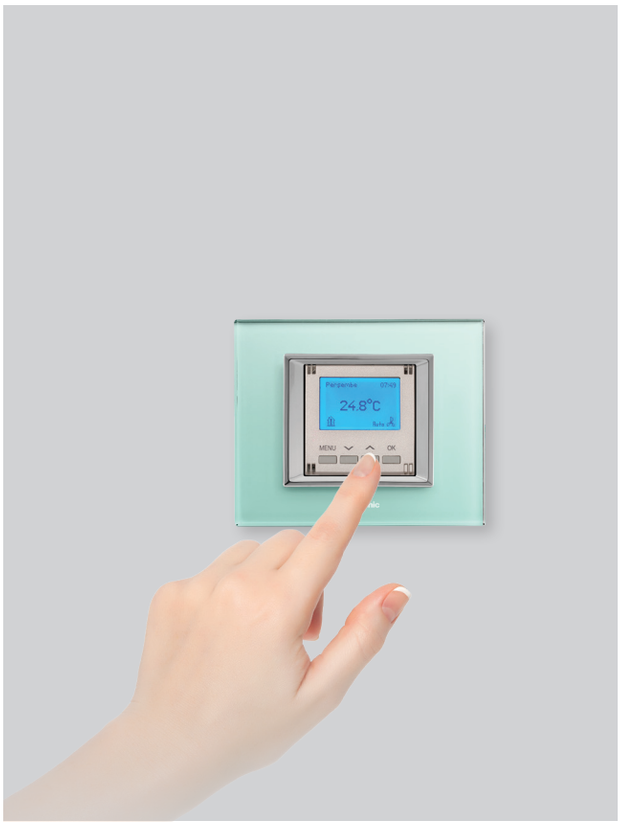
Panasonic Building Automation System
Connection Diagram



- UTP (Cat 6 Network/IP Interface)
- RVV (DC Power Supply)
- RVV (İnput/Output)
- BUS Cable

Images are representative samples and are subject to change.

Panasonic

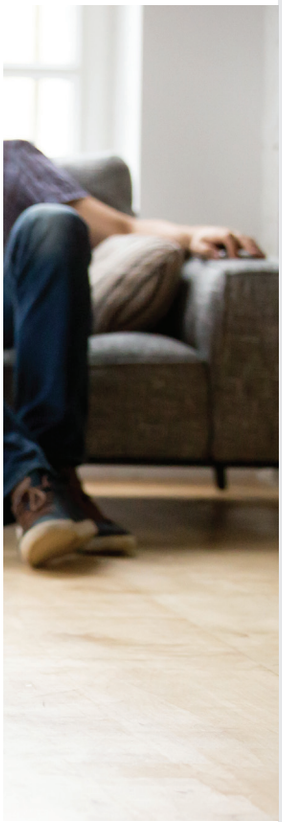




SWITCH



Modular



Panasonic

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

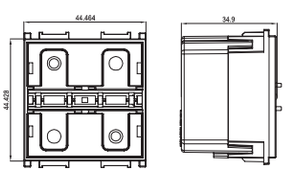
	2x1/1GANG 4x2/2GANG 6x3/3GANG
Operating voltage KNX	Bus voltage (<10 mA)
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

PRODUCT CODES

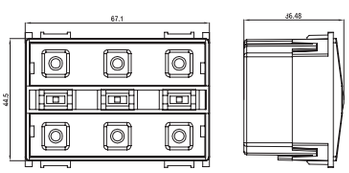
PRODUCT	PRODUCT CODES
KNX Modular Switch 1 Gang-2M	WRKT61215NC
KNX Modular Switch 2 Gang-2M	WRKT61225NC
KNX Modular Switch 3 Gang-3M	WRKT61335NC

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

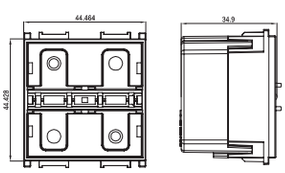
	TSA 8x4 (2M) TSA 8x4 (4M)
Operating voltage KNX	Bus voltage (<10 mA)
Ambient temperature	-5°C ... +45°C
Protection rating	IP20

PRODUCT CODES

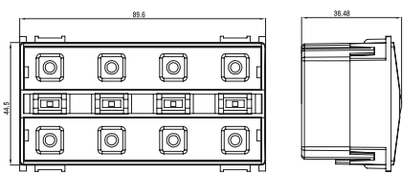
PRODUCT	PRODUCT CODES
KNX Modular Switch 4 Gang-2M	WRKT61245NC
KNX Modular Switch 4 Gang-4M	WRKT61445NC

DIMENSIONS

4 GANG (2M)



4 GANG (4M)



Panasonic

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
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

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

Panasonic

SWITCH
Frame and Cover Color Alternatives

Sistema







Sistema Color Alternatives

METALLIC



INOX



INOX MATT



CHROME



CHROME MATT



UNA



ANTIQUE



GOLD

Frame Alternatives



2M



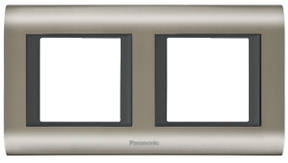
3M



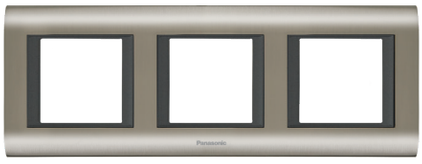
4M



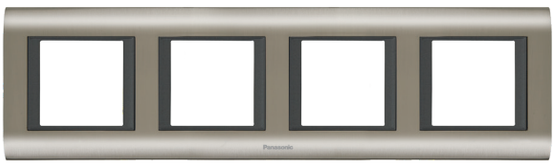
7M



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

Panasonic

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

Panasonic

ACCESSORIES

Color Alternatives

WHITE



1/2M 1M 2M

BEIGE



1/2M 1M 2M

METALLIC WHITE



1/2M 1M 2M

DORE



1/2M 1M 2M

ANTHRACITE



1/2M 1M 2M

DARK GRAY



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
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	WRKT81004BG	WRKT81014BG	WRKT81024BG
Metallic White	WRKT81004MW	WRKT81014MW	WRKT81024MW
Dark Gray	WRKT81004DG	WRKT81014DG	WRKT81024DG
Dore	WRKT81004DR	WRKT81014DR	WRKT81024DR
Anthracite	WRKT81004AN	WRKT81014AN	WRKT81024AN
Black	WRKT81004BL	WRKT81014BL	WRKT81024BL



Panasonic

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



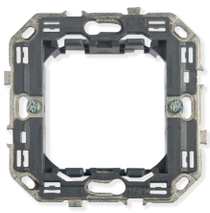
x4

ACCESSORIES

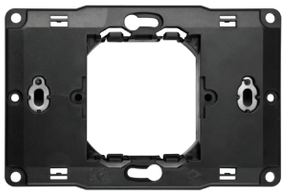
Mounting Frames

2M MOUNTING FRAMES

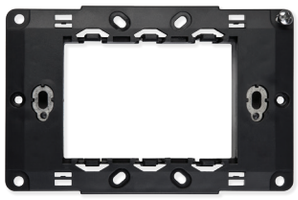




2/3M MOUNTING FRAME



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

Panasonic

ACCESSORIES
Norm

Mounting Boxes

2M HOLLOW WALL BOX



WVTC07804

2M HOLLOW WALL BOX



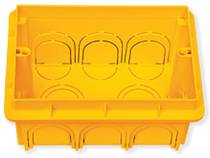
WVTC07844

2M HOLLOW WALL BOX



90926006

3M HOLLOW WALL BOX



WVTC07814

3M HOLLOW WALL BOX



WVTC07854

WALL BOX -
DEEP AND EXTENDABLE



90926001

4M HOLLOW WALL BOX



WVTC07824

4M HOLLOW WALL BOX



WVTC07864

7M HOLLOW WALL BOX



WVTC07834

7M HOLLOW WALL BOX

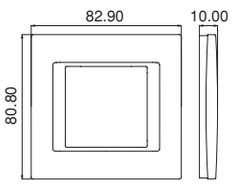


WVTC07874

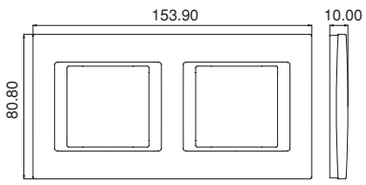
TECHNICAL INFORMATION
Frames

Frame Dimensions

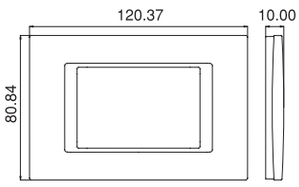
OPTIMA FRAMES



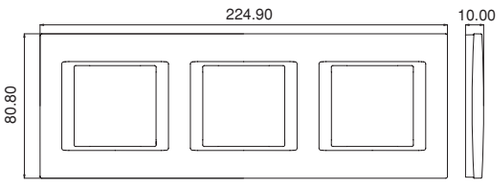
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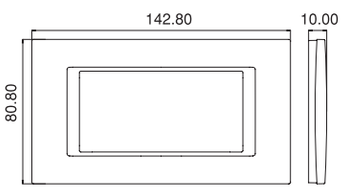
2x2M



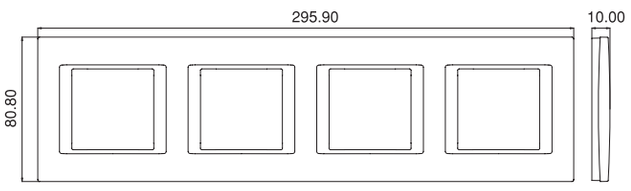
3M



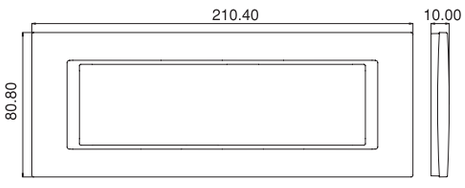
3x2M



4M



4x2M



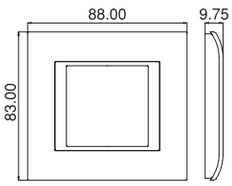
7M

Panasonic

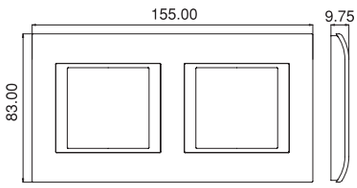
TECHNICAL INFORMATION
Frames

Frame Dimensions

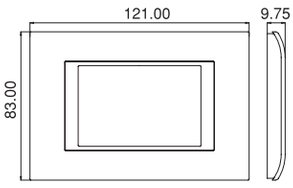
SISTEMA FRAMES



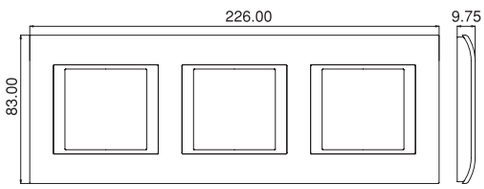
2M



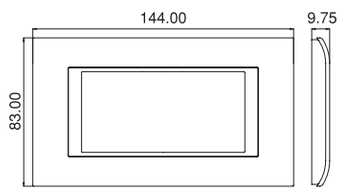
2x2M



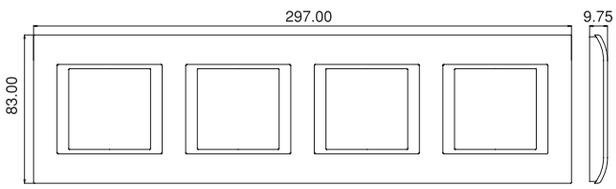
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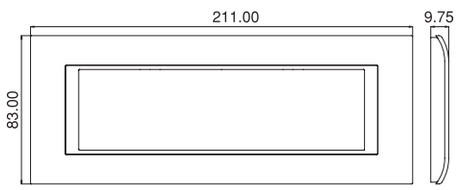
3x2M



4M



4x2M

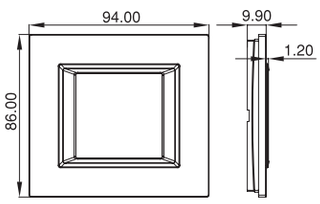


7M

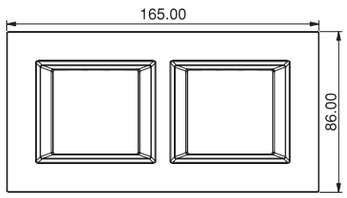
TECHNICAL INFORMATION
Frames

Frame Dimensions

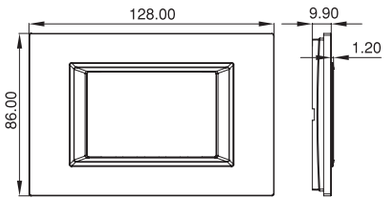
ULTIMA FRAMES



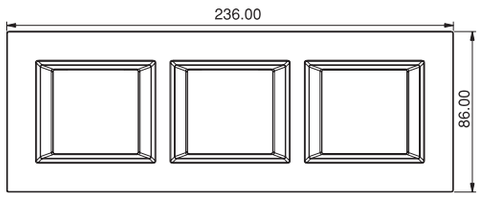
2M



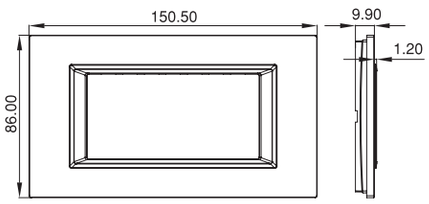
2x2M



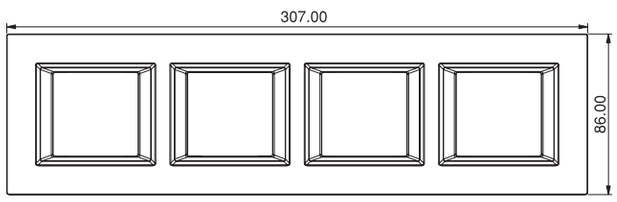
3M



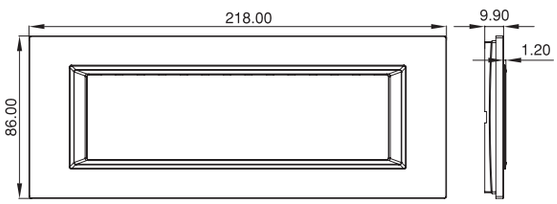
3x2M



4M



4x2M



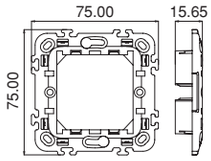
7M

Panasonic

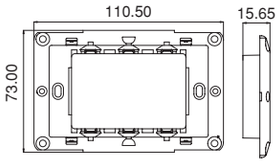
TECHNICAL INFORMATION
Accessories

Mounting Frame Dimensions

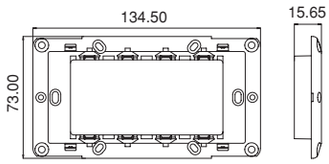
2M



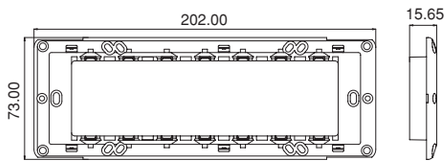
3M



4M



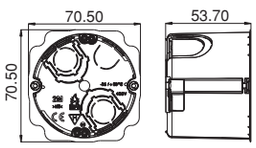
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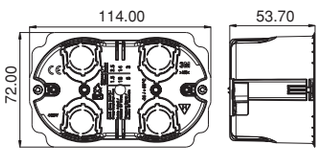
Wall Box Dimensions

HOLLOW WALL MOUNT

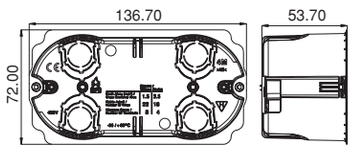
2M



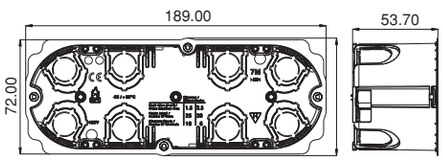
3M



4M

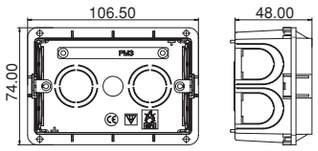


7M

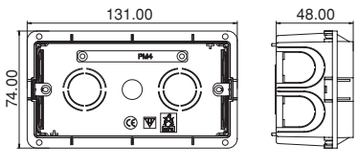


WALL MOUNT

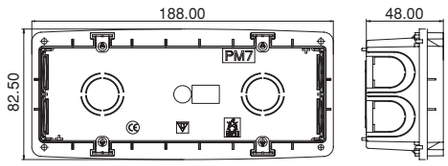
3M



4M



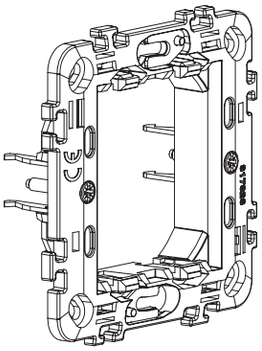
7M



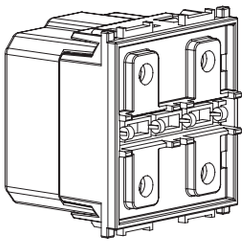
Panasonic

TECHNICAL INFORMATION
Modular

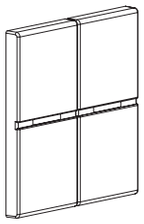
Mounting Modular



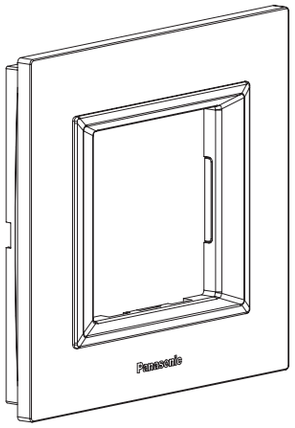
Boxes



Mounting Frames



Buttons



Frames

3M











4M











7M





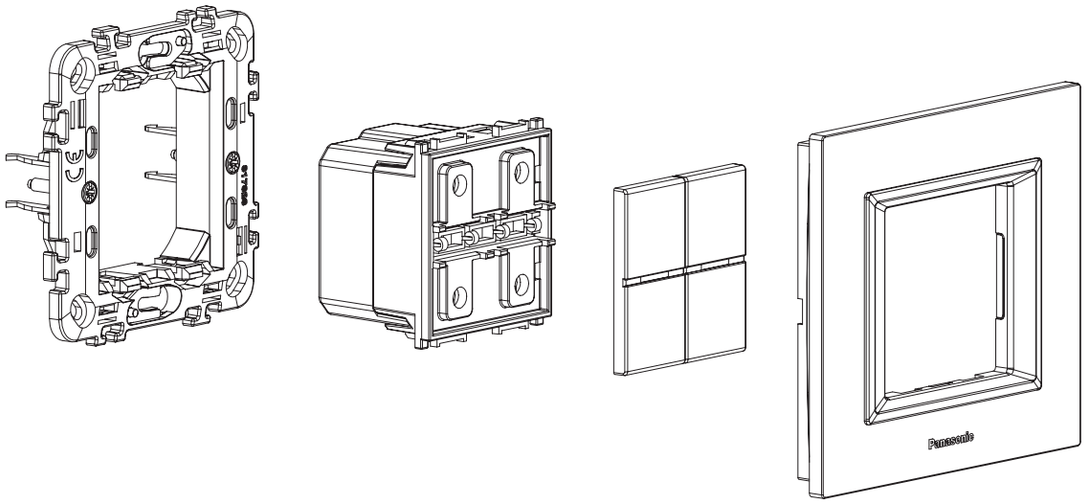






TECHNICAL INFORMATION
Norm

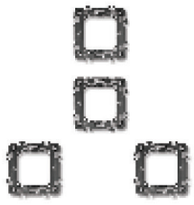
Mounting Norm



Boxes | Mounting Frames | Buttons | Frames

2M











2x2M











3x2M











4x2M











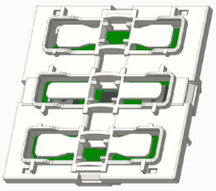
Panasonic

TECHNICAL INFORMATION
KNX Standard

Using Mechanism and Button Cover



KNX SWITCH BAU (BUS ACCESS UNIT)



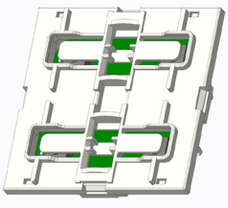
WRKT60015NC
KNX 1 GANG KNX SWITCH
ELECTRONIC GROUP



KNX 1 GANG SWITCH COVER



KNX SWITCH BAU (BUS ACCESS UNIT)



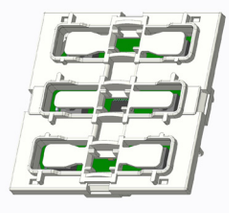
WRKT60025NC
KNX 2 GANG KNX SWITCH
ELECTRONIC GROUP



KNX 2 GANG SWITCH COVER



KNX SWITCH BAU (BUS ACCESS UNIT)



WRKT60035NC
KNX 3 GANG KNX SWITCH
ELECTRONIC GROUP

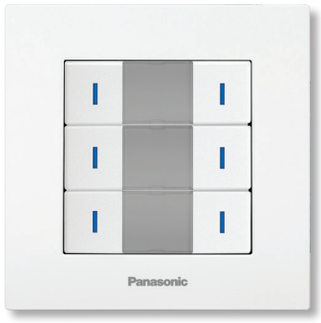


KNX 3 GANG SWITCH COVER

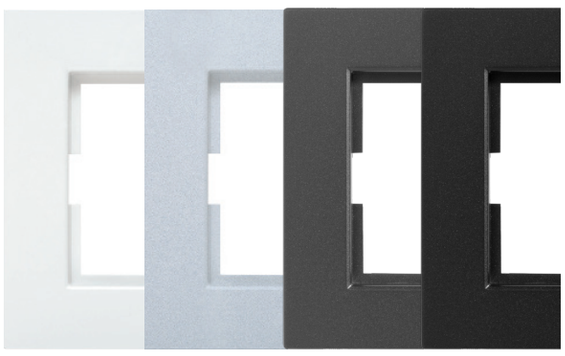
SWITCH
Frame Color Alternatives







Frame



White Silver Dark Gray Black



Aluminum Silver | Aluminum Bronze | Aluminum Black

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

Panasonic



SWITCHES

KNX Multi Functional Switch

KNX Multi Functional Switch (LCD Display)



KNX Multi Functional Switch (No 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.

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

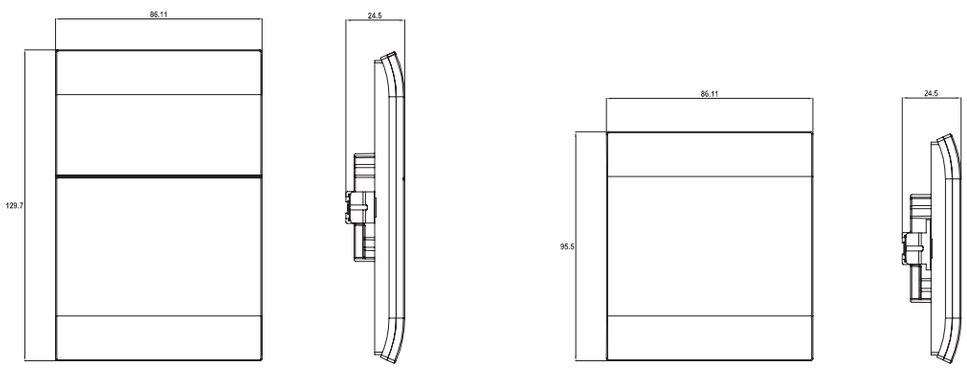
TECHNICAL DATA

	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	

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



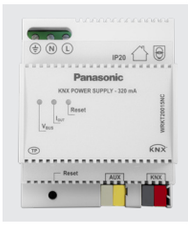
Specifications are subject to change without notice.

Panasonic

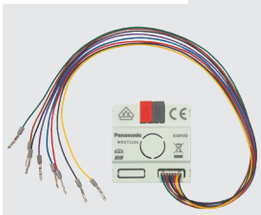




POWER SUPPLY & INTERFACE



Power Supply

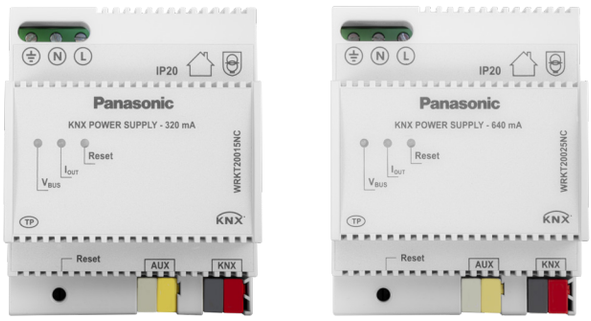


Interface



Panasonic

KNX POWER SUPPLY TP-320mA/640mA



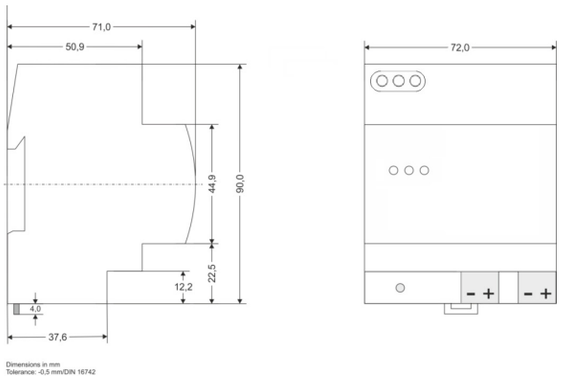
MAIN FEATURES

- 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

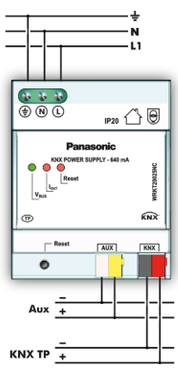
PRODUCT CODES

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

DIMENSIONS



CONNECTION



TECHNICAL DATA

Power input	
Mains voltage	230 V AC ±15 % @ 50 Hz
Leakage loss (open-circuited)	0.9 W
Leakage loss (normal)	2.7W for 320mA - 4.3W for 640mA
Power consumption (normal)	12.2W for 320mA - 22.9W for 640 mA
Power consumpt.(max., overload)	25W for 320mA - 44.5W for 640 mA
Housing	
Dimensions (HxWxD)	94 x 72 x 71 mm
Mounting (IEC60715)	35 mm top-hat rail (TH35)
Width in space units	4 modules at 18 mm
Mains voltage connection	Screw terminals 0.3…2.5 mm2 (max. torque 0.4 Nm)
KNX bus connection	KNX TP connector (red/black)
AUX output connection	KNX TP connector (white/yellow)
Weight	206 g
Environmental conditions	
Operating temperature	-5…45 °C
Storage temperature	-20...70 °C
Ambient humidity	5…93 % (non-condensing)
Power output	
KNX output voltage	28…31 V DC (SELV)
AUX output voltage	28…31 V DC (SELV)
Rated current	320mA - 640 mA
Maximum current (total output)	0.7A for 320mA - 1.2A for 640mA
Mains failure bridging time	> 100 ms
Electrical safety	
Pollution degree (IEC60664)	2
Protection type (IEC60529)	IP20
Overvoltage category (IEC60664)	III
Approbation (ISO/IEC14543-3)	KNX-certified

KNX AREA / LINE COUPLER TP



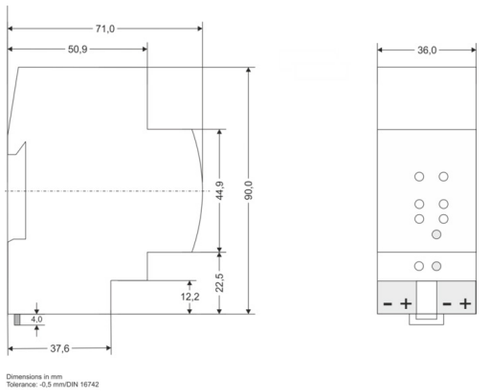
MAIN FEATURES

- 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

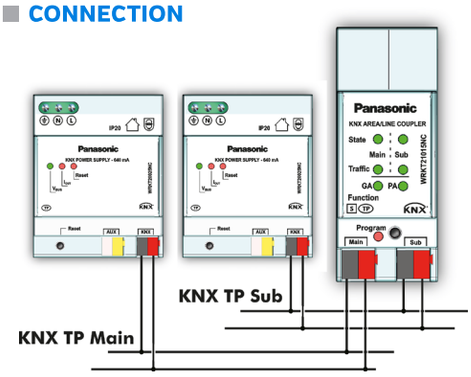
PRODUCT CODES

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
Overvoltage category (IEC60664)	III
Approbation (ISO/IEC14543-3)	KNX-certified

Panasonic

KNX USB GATEWAY TP



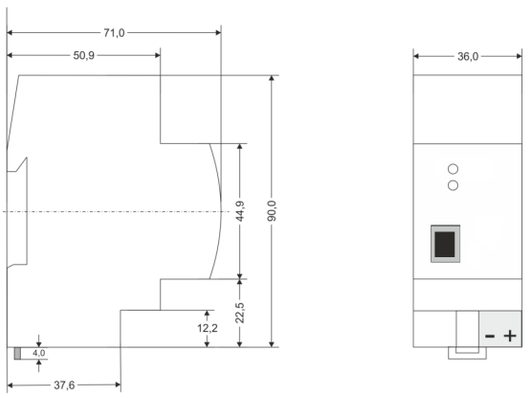
MAIN FEATURES

- 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

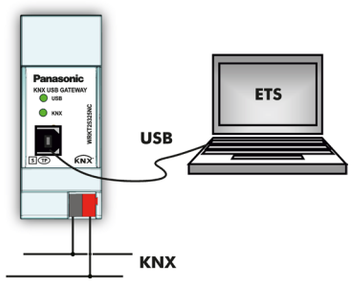
PRODUCT	PRODUCT CODES
KNX USB Gateway TP	WRKT25325NC

DIMENSIONS



Dimensions in mm
Tolerance: -0,5 mm/DIN 16742

CONNECTION



TECHNICAL DATA

Power input	
Power supply	21…30 V DC SELV USB, 5 V DC
Current consumption	< 5 mA (KNX TP) < 20 mA (USB)
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	USB2.0 (Type B, female)
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
Overvoltage category (IEC60664)	III
Approbation (ISO/IEC14543-3)	KNX-certified

KNX IP ROUTER TP



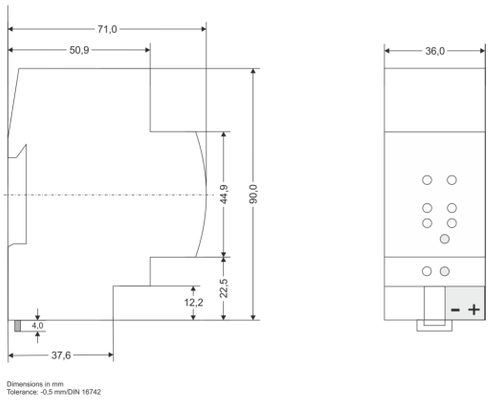
MAIN FEATURES

- 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

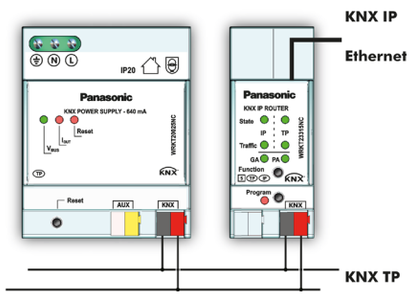
PRODUCT	PRODUCT CODES
KNX IP ROUTER TP	WRKT23315NC

DIMENSIONS



Dimensions in mm
Tolerance: -0,5 mm/DIN 16742

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	-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
Overvoltage category (IEC60664)	II
Approbation (ISO/IEC14543-3)	KNX-certified

Panasonic

KNX IP INTERFACE TP



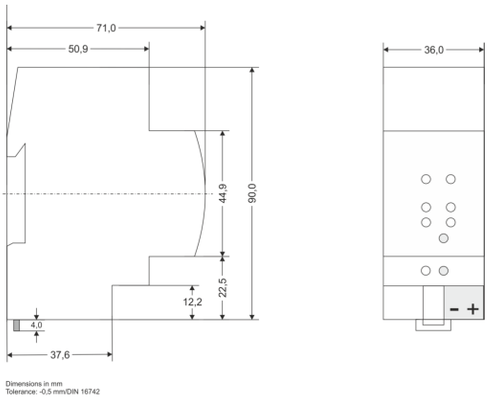
MAIN FEATURES

- 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

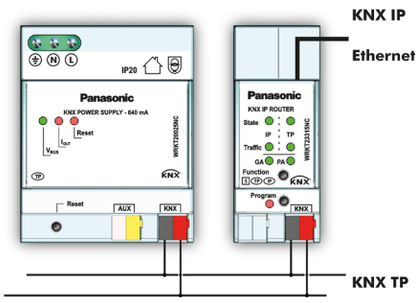
PRODUCT	PRODUCT CODES
KNX IP INTERFACE TP	WRKT23305NC

DIMENSIONS



Dimensions in mm
Tolerance: -0,5 mm/DIN 16742

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	-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
Overvoltage category (IEC60664)	II
Approbation (ISO/IEC14543-3)	KNX-certified

KNX DALI GATEWAY DL101/ DL102



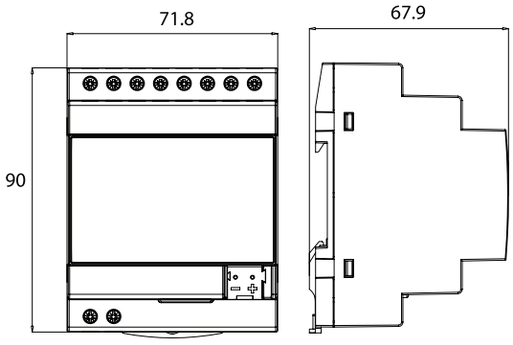
MAIN FEATURES

- For each DALI channel, 64 ballasts, 16 groups, 16 scenarios and broadcast control
- For each DALI ballast and group, staircase, night, panic and burn-in mode control over KNX
- Faults monitoring of DALI ballasts via KNX
- Automatic addressing of ballasts in DALI bus
- Manual control and monitoring of ballasts on the DALI bus via the user interface
- Feature of DALI power supply
- Software update over Ethernet

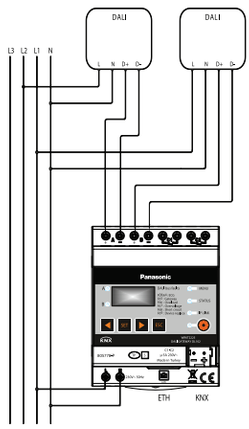
PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX DALI GATEWAY DL101 (1 Channel)	WRKT22245NC
KNX DALI GATEWAY DL102 (2 Channels)	WRKT22255NC

DIMENSIONS



CONNECTION



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	2 channel
Number of DALI devices	Maximum 64 ballast per output	
Protection	Short circuit, Overload, Over-voltage (230VAC)	
DALI voltage		
No-load voltage Maximum supply current Guaranteed supply current	18 V DC 250 mA 230 mA	18 V DC 2x250 mA 2x190 mA
	The DALI control voltage is a functional extra-low voltage (FELV).	
DALI cable lengths (for copper wire)	- 2.5 mm^2 max. 300 m - 1.5 mm^2 max. 300 m - 1.0 mm^2 max. 224 m - 0.75 mm^2 max. 168 m - 0.5 mm^2 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)	II	
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^2…4mm^2 or 2x1,5mm^2…2x2,5mm^2 Stranded wire without ferrule: 0,75mm^2…4mm^2 Stranded wire without ferrule: 0,5mm^2…2,5mm^2	
Weight	0.22 kg	

Panasonic

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	WRKT4000E5NC
KNX INPUT MODULE 20/8 GANG DRY-CONTACT/230V IO101	WRKT4001E5NC

TECHNICAL DATA

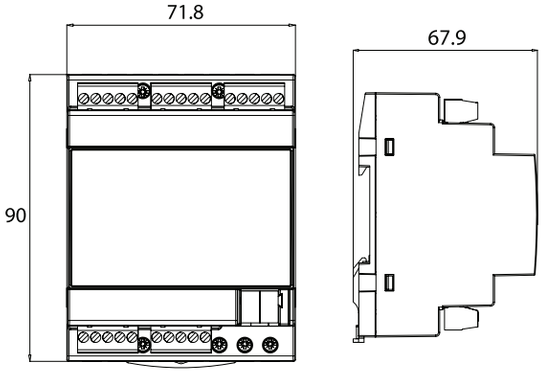
Power	
Operating voltage	DC 21-32 V (from KNX bus)
Maximum current consumption - Vout disabled	20mA from KNX bus
Maximum current consumption - Vout enabled	40mA from KNX Bus
Environmental conditions	
Ambient temperature	-5 C ...+45 C
Storage temperature	-10 C ... +55 C
Ambient humidity	5...93% (non-condensing)
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	1mm²

Vout	
Output voltage	5V ± 10%
Maximum current	75mA
Maximum cable length	100 meters
Minimum cable cross section	1mm²

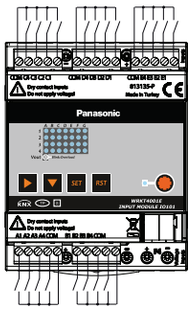
10-230V AC / DC inputs	
Permissible voltage range	10-230V AC/DC
Maximum input current	1mA
Signal level for 0 signal	0...3 V AC/DC
Signal level for 1 signal	8...230 V AC/DC
Maximum cable length	100 meters
Minimum cable cross section	1mm²

DIMENSIONS

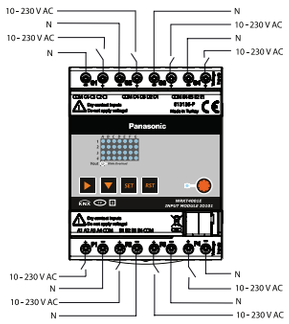


CONNECTION

• Dry Contacts Connection



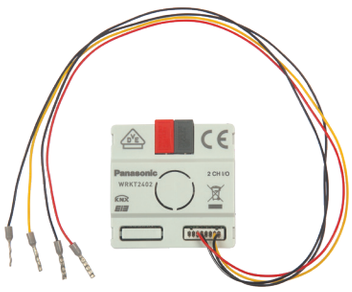
• 10-230V AC Connection



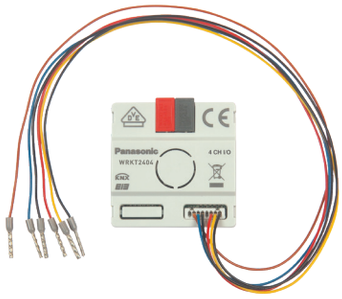
POWER SUPPLY & INTERFACE
Binary Inputs for flush-mounted sockets 2/4/6 way

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

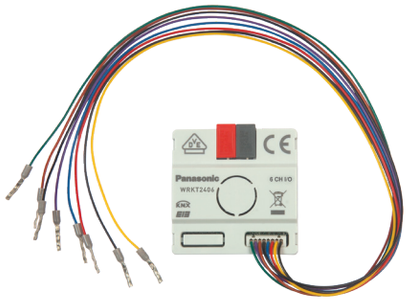
KNX Binary Input 2-Way



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

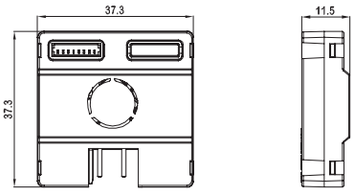
GENERAL	
Power supply	Bus voltage
Ambient temperature	-5 °C... + 45°C
Current draw from bus voltage	Max 10mA
Bus connection	Bus terminal
Type of protection	IP 20 to EN 60529
Degree of pollution	2 to IEC 60664-1
Protection class	Class III to IEC 61140
Overvoltage class	Class III to IEC 60664-1
Dimensions	LxWxH 37 x 37 x 12 (mm)

Inputs	
Quantity	2 Way: 2 outputs 4 Way: 4 outputs 6 Way: 4 outputs
Use	Low current LEDs without series resistor
Output current	Maximum 1mA / output

PRODUCT CODES

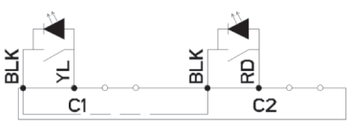
PRODUCT	PRODUCT CODES
KNX Binary Input 2-Way	WRKT24025NC
KNX Binary Input 4-Way	WRKT24045NC
KNX Binary Input 6-Way	WRKT24065NC

DIMENSIONS

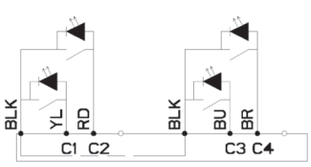


CONNECTION

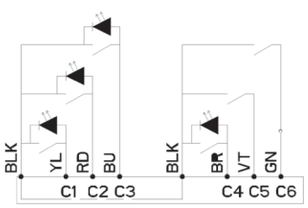
KNX Binary Input 2-Way



KNX Binary Input 4-Way



KNX Binary Input 6-Way



Panasonic

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

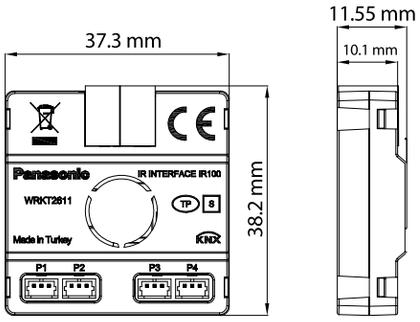
TECHNICAL DATA

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°

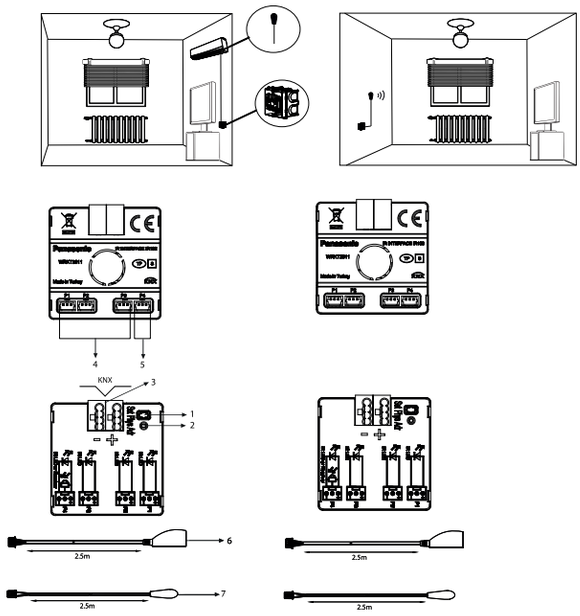
PRODUCT CODES

PRODUCT	PRODUCT CODES
KNX IR INTERFACE IR100 (Total)	WRKT26115NC
KNX IR TRASMITTER	WRKT26401NC
KNX IR RECEIVER	WRKT26411NC

DIMENSIONS



CONNECTION







Panasonic





ACTUATOR



Actuator



Panasonic

ACTUATOR
Mix Actuators (Switching/Blind/Fancoil/Heating/Logic)

KNX MIX ACTUATOR MX124-16A





KNX MIX ACTUATOR MX120-16A



KNX MIX ACTUATOR MX116-16A



KNX MIX ACTUATOR MX112-16A



KNX MIX ACTUATOR MX108-16A



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.

ACTUATOR
Mix Actuators (Switching/Blind/Fancoil/Heating/Logic)

TECHNICAL DATA

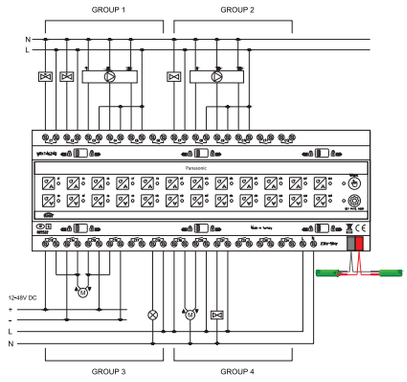
KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21–32V DC
Mains supply	230V AC
Mains frequency	50Hz
Installation type	DIN rail
Mounting width	4 Channels – 72 mm 8/12 Channels – 144 mm 16/20/24 Channels– 252 mm
Ambient temperature	-5 °C ...+45 °C
Storage temperature	-10 °C ... +55 °C
Transportation temperature	-25 °C ... +70 °C
Connection	
KNX	KNX bus terminal
Mains and outputs	Screw terminals
Max. cable cross section	Single wire: 1.5 mm² to 4 mm² or 2 x 1.5 mm² to 2x2.5 mm² Stranded wire without ferrule: 0.75...4 mm² Stranded wire with ferrule: 0.5 mm² to 2.5 mm²
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	3680W
Capasitive load	max. 21uF at 16A
Motors (shutter or fan)	600W
Max. inrush current	80A / 20 ms
Lamp Loads	
Incandecent / 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

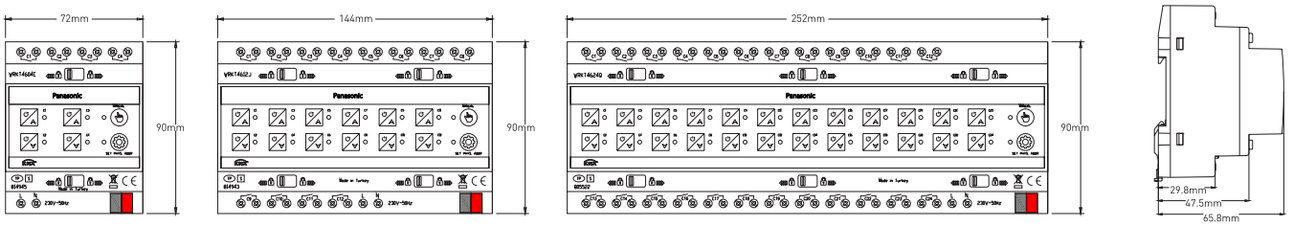
PRODUCT CODES

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



Panasonic

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

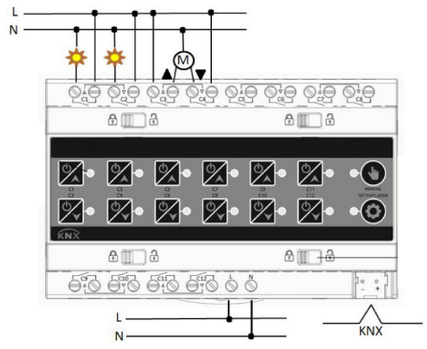




MAIN FEATURES

- 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

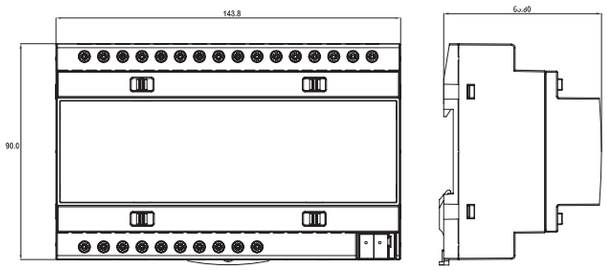
KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21-32V DC
Mains supply	230V AC
Mains frequency	50/60Hz
Installation type	DIN rail
Mounting width	12/6 Channels – 144 mm (8 modules) 8/4 Channels – 144 mm (8 modules) 4/2 Channels– 72 mm (4 modules)
Ambient temperature	-5 °C ...+45 °C
Storage temperature	-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 mm² to 4 mm² or 2 x 1.5 mm² to 2x2.5 mm² Stranded wire without ferrule: 0.75...4 mm² Stranded wire with ferrule: 0.5 mm² to 2.5 mm²
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	3680W
Capasitive load	max. 21uF at 16A
Motors (shutter or fan)	600W
Max. inrush current	80A / 20 ms
Lamp Loads	
Incandecent / 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

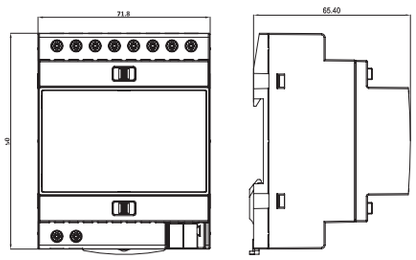
PRODUCT CODES

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



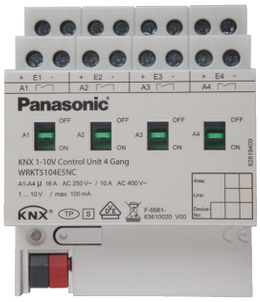
For only 12/6 and 8/4.



For only 4/2

Panasonic

KNX 1-10 V DIMMER CONTROL UNIT 4 GANG GV



The device depending on the product code varies.

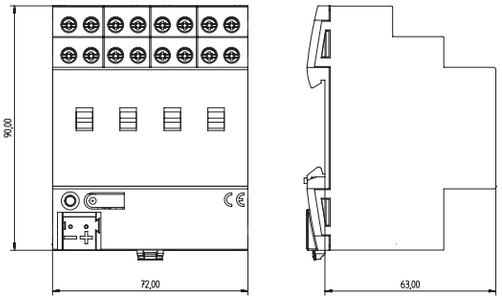
MAIN FEATURES

- 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 vai manual buttons

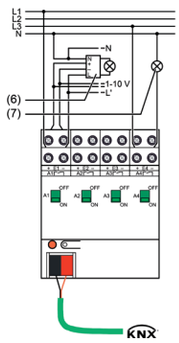
PRODUCT CODES

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



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

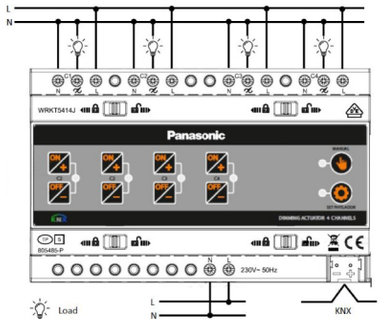
TECHNICAL DATA

KNX Medium	TP1	
Mode of commissioning	S-Mode	
KNX supply	21-32V 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	
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^2 to 4 mm^2 or 2 x 1.5 mm^2 to 2x2.5 mm^2 Stranded wire without ferrule: 0.75…4 mm^2 Stranded wire with ferrule: 0.5 mm^2 to 2.5 mm^2	
Max Loads	DM102 (2 channels)	DM104 (4 channels)
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)

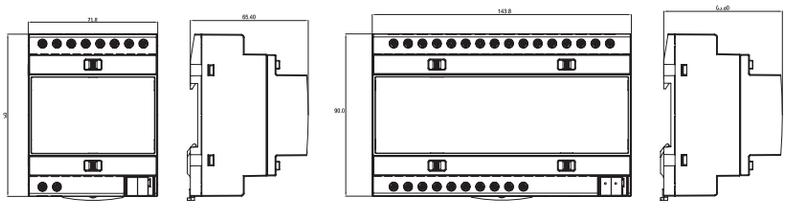
PRODUCT CODES

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

CONNECTION



DIMENSIONS



* 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.

Panasonic





SENSOR & DETECTOR



Thermostat



Panasonic

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

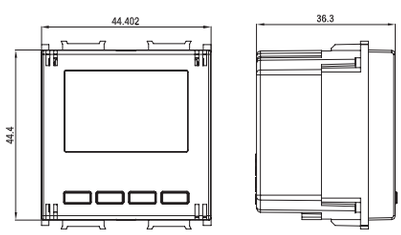
	Modular Thermostat
Power supply	Bus voltage
Ambient Temperature	-5°C ... +45°C
Current draw from bus voltage	Max 10mA
Bus connection	Bus terminal
Type of protection	IP20 to EN 60529

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

DIMENSIONS

KNX Modular Thermostat



SENSOR & DETECTOR

KNX Modular Thermostat

COLOR ALTERNATIVES



Opaque White



Beige



Metallic White



Dore



Anthracite



Dark Gray



Black

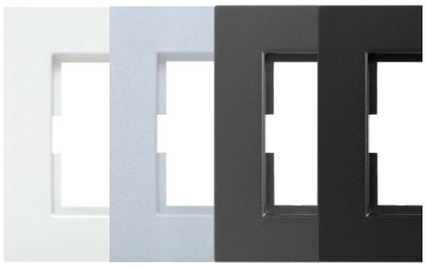


KNX Standard Thermostat

COLOR ALTERNATIVES






White Silver Dark Gray Black


Aluminum Silver Aluminum Bronze Aluminum Black

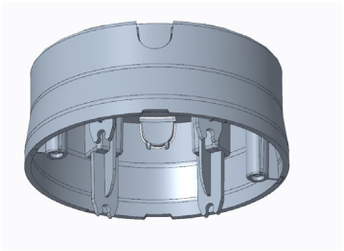
Panasonic

SENSOR & DETECTOR

KNX Ceiling Type Presence Detector



Surface Mount Installation Box



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

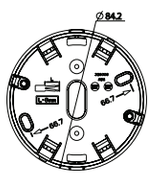
TECHNICAL DATA

	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_2)	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

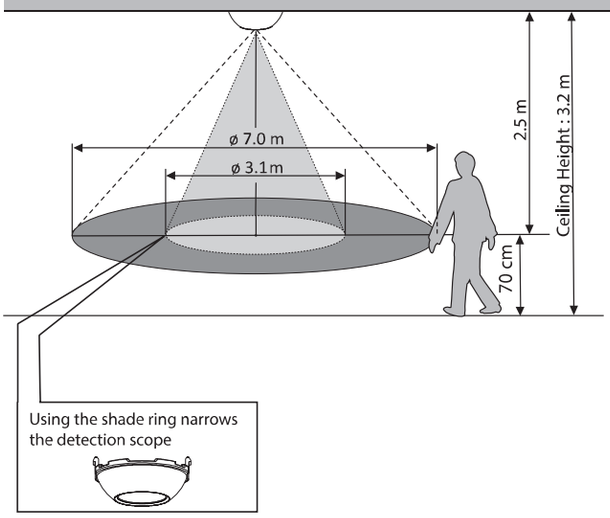
DIMENSIONS

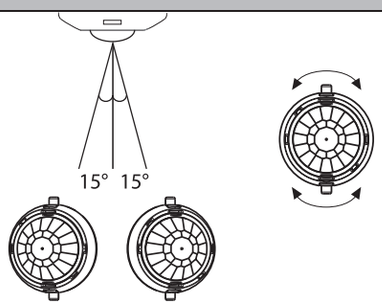


Specifications are subject to change without notice.

Product Version			
Product Features	WRKT32005NC KNX Ceiling Type Presence Detector A100	WRKT32015NC KNX Ceiling Type Presence Detector A100-T	WRKT32025NC KNX Ceiling Type Presence Detector A100-TA
Presence detection	√	√	√
Brightness measurement	√	√	√
Temperature measurement	-	√	√
Humidity measurement	-	√	√
Air Quality measurement	-	-	√

Ceiling





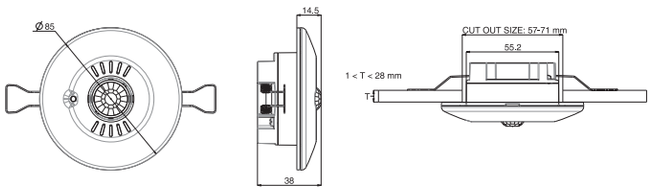
The lens angle can be freely adjusted within the following range: 360° rotation, ± 15° horizontal.

- 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



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