Panasonic



KNX Switching/Blind Actuator

WRKT4504E-XXX - 4/2 Channels
WRKT4508J-XXX - 8/4 Channels
WRKT4512J-XXX - 12/6 Channels

WRKT4504E-XXX
WRKT4508J-XXX
WRKT4512J-XXX

KNX CE

⚠ Installation should only be carried out by a technical personnel having certificate of competency

Panasonic

Panasonic Electric Works Elektrik San.ve Tic. A.Ş.
Abdurrahmangazi Mah. Ebubekir Cad. No: 44
34887 Sancaktepe / İstanbul / Turkey
T: 0(216) 564 55 55 F: 0(216) 564 55 44

HOTLINE
444 8456
ewtr.panasonic.com

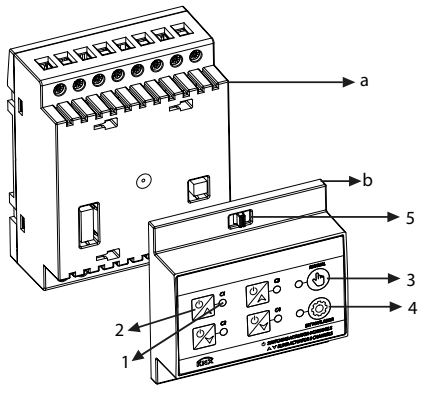
611450-KNX-EN

General Features

The combi- switching/blind actuator is a freely configurable relay unit. The actuator can be used for on/off switching of light systems and for controlling of blind/shutter mechanisms (awnings, blinds, shutters and various sun and visibility protection devices) used in all kinds of buildings. According to the requirements of the installation the actuator can be configured per one channel. Every channel can be configured for on/off switching or blind/shutter mechanism. The module can be used for switching max. 16A, furthermore it has a high-inrush current capability of up to 80A.

Construction

The device consitsts of two severable parts:
a. Relay module: switching lower part which is mounted on the DIN rail.
b. Control module: Upper part which runs the KNX application.
The KNX application has to be loaded in the upper part (b). Then it can be disconnected from the lower part (a) if required.

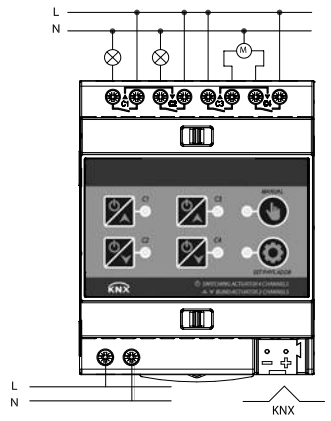


Control buttons for output channels

1. LEDs for signalizing if the channel is switched on or off
2. Push button for direct mode (for respective output)
3. Push button for changing between direct mode and KNX application
4. Key for programming of the physical adress
5. Lock

The outputs C1, C2, C3, C4... can be used for switching and/or controlling of blind/shutter independent of the setting of the other outputs.

Connection



Technical Data

General	
KNX interface	TP1
Configuration mode	S-Mode
Bus voltage	21-32 V DC
Supply voltage	110 / 230 V AC
Mains frequency	50 / 60 Hz
Installation type	DIN rail
Mounting width	12/6 Channels – 144mm (8 modules) 8/4 Channels – 144mm (8 modules) 4/2 Channels– 72mm (4 modules)
Ambient temperature	-5 C …+45 °C
Storage temperature	-10 C … +55 °C
Transportation temperature	-25 C … +70 °C

Connection	
Bus connection	KNX bus terminal
Connection type	Screw terminals
Max. cable cross section	Single wire: 1.5 mm² to 4 mm² or 2 x 1.5 mm² to 2 x 2.5 mm² Stranded wire without ferrule: 0.75...4 mm² Stranded wire with ferrule: 0.5 mm² to 2.5 mm²
Output contact type	Potential-free closing contacts
Switching Voltage AC	0-230 V AC ± 10%, 50/60 Hz
Switching capacity at 230V AC	16A (PF=1), 3A (PF=0,6)

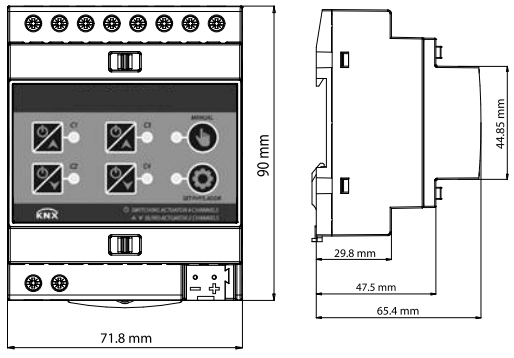
Current Load Rating Per Device	
WRKT4504E--	Sum of C1…C4 maximum 40A
WRKT4508J--	Sum of C1…C8 maximum 80A
WRKT4512J--	Sum of C1…C12 maximum 120A
Overall load current rating of neighbouring outputs	Max 20A Σ max. 20 A: C1 C2 C3 … Σ max. 20 A: Cn …

Max. connection load per output	
Ohmic load	3680 W
Capacitive load	max. 21µF at 16A
Inductive load (shutter...)	600W
Max. inrush current	80A / 20ms

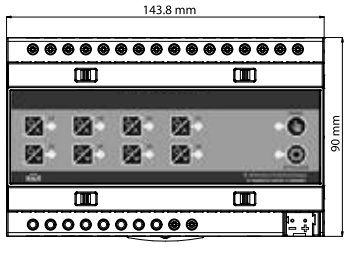
Max. lamp load per output	
Incandecent / Halogen load	2000 W
230 V halogen lamps	1800 W
Low voltage halogen lamps with electr. switching power supply	800 W
Low voltage halogen lamps with inductive transformers	800 VA
Fluorescent lamp load (conventional) parallel connected	2 x 58 W (7 µF), 3 x 36 W (4,5 µF), max. 120 W (14 µF)
Fluorescent lamp load (conventional) series connected	14 x 58 W, 20 x 36 W, max. 1000 VA
Fluorescent lamp load with EB	3 x 36 W, 2 x 58 W, max. 120 W
Energy saving lamps	6 x 7 W, 4 x 11 W, 2 x 15 W, 2 x 20 W, 2 x 23 W

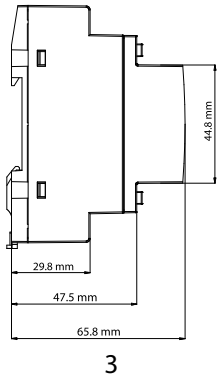
Dimensional Drawings

• 4 Channel



• 8-12 Channel





WARNING

- Ensure that the power is cut off before the assembly of the products.
- Connection and assembly of the electrical devices should be carried out only by the technical personnel having certificate of competency.
- No responsibility is assumed for the entire of the malfunction, accident and loss arising from the assembly or interference of the persons not having the competency certificate.
- Use dry or slightly damp cloth to clean the buttons, cover and frame of the product. Never use alcohol, cologne, detergent or other similar chemicals for cleaning. Do not perform wet cleaning do not contact the product with water when the product is energized.
- In case the surface to which the product is connected is dyed, store the product by removing its cover and the frames.
- Keep the product away from the damp or wet environment during the transportation and shipping.
- It is intended for indoor use only.
- Protect the switch contacts with a series-connected miniature circuit-breaker of characteristic B for a max. rated current of 16A.

Service and Guarantee

- Warranty period starts as of the delivery date of the product and it is 2 years.
- Warranty covers the malfunctions likely to occur due to the manufacturing defects of the product and within the warranty period.
- The product including all of its parts is under waranty as a whole. If the product turns out to be defective, the consumer can use one of the following rights stipulated in Article 11 of Consumer Protection Law no. 6502;

a- Withdrawal from the contract
b- Demanding discount from sales fee
c- Demanding free repair,
d- Demanding the replacement of the sold one with a fungible one free from defects.

- In case the consumer chooses the right of free repair among those rights; the dealer is obliged to repair the product or have the product repaired without claiming any fee under the name of replaced part fee, labor cost or for any other reasons. The consumer can also use the right of free repair against the manufacturer or exporter. The dealer, manufacturer and exporter are jointly and severally liable for the usage of this right by the consumer.
- In case the consumer uses the right of free repair and if the product
  - fails within the warranty period again and
  - the maximum period required for the repair is exceeded and
  - Authorized service station, dealer, manufacturer or exporter state that it's not possible to repair the product in a report, the consumer can demand the return of the product fee, fee discount at the ratio of the defect or the replacement with the one free of defects, if possible, from the dealer. The dealer can not reject the demand of the consumer. In case this demand is not met, the dealer, manufacturer and exporter shall jointly and severally be held responsible.
- The repair period of the product can not exceed 20 business days. This period starts on the notification of the failure on the product to the authorized service station or the dealer within the warranty period and from the date of delivery of the product to the authorized service station out of warranty period. In case of not eliminating the product malfunction within 10 business days, manufacturer or importer is obliged to dedicate another product with similar characteristics to the use of the consumer vuntil the completion of the product repair. In case the product fails within the warranty period, elapsed time is added to the warranty period.
- Usage of the product contrary to the rules stipulated in user's manual, operating out of determined voltage, current and environmental conditions, damage on the cable connection due to the user's fault and failure of the product due to the facts arising from the fire, flood, earthquake, lightning and similar disasters are not under warranty.
- The consumer can apply to the arbitration committee for consumers or the consumer court where the consumer operations are made or in the residential area for the disputes to be occurred regarding the usage of the rights arising from the warranty.
- In case the dealer doesn't provide this certificate of warranty, the consumer can apply to the General Directorate of Consumer Protection and Market Surveillance of Ministry of Customs and Trade".