

KNX DIMMING ACTUATOR 2 GANG 300W
KNX DIMMING ACTUATOR 4 GANG 250W

Safety instructions



Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Always disconnect before carrying out work on the device or load.

Danger of electric shock. Device is not suitable for disconnection from supply voltage. The load is not electrically isolated from the mains even when the output is switched off.

Risk of destruction of the dimmer and load if the set operating mode and load type do not match. Set the correct dimming principle before connecting or exchanging the load.

Fire hazard. For operation with inductive transformers, each transformer must be fused on the primary side in accordance with the manufacturer's instructions. Only safety transformers according to EN 61558-2-6 may be used.

These instructions are an integral part of the product, and must remain with the end customer.

The connected load and dimmer quality on LED lamps are dependent on the type of lamp and installation conditions. The connected load of the specified values could vary. We cannot assume any guarantee for proper function, dimming results and dimming quality.

Intended use

- Switching and dimming of lighting
- Operating in KNX systems
- Mounting on DIN rail according to EN 60715 in distribution boxes

Operation

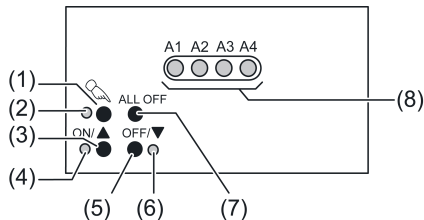


Figure 1: Operating elements

Continuous manual mode

- o Activate: Press the c button (1) for approx. 5 s. LED c (2) lights up, LED A1 flashes.
- o Deactivate: Press the c button (1) for approx. 5 s.

Short-time manual operation

- o Activate: Press the c button (1) briefly. Automatic return to bus operation 5 s after last operation

Operating an output in manual mode

- o Keep pressing the c button (1) until the LED A1...A4 (8) of the selected output flashes.
- o Press the ON/n (3) or OFF/o button (5). Short: Switch on / switch off. Long: dim brighter/darker. LED ON/n (4) on: Output 1...100% LED OFF/o (6) on: Output off

Switch off all

- o Activate permanent manual operation.
- o Press the ALL OFF button (7).

Block/enable individual outputs

- o Activate permanent manual operation.
- o Keep pressing the c button (1) until the LED A1...A4 (8) of the selected output flashes.
- o Press the ON/n (3) and the OFF/o button (5) simultaneously for at least 5 s. The status LED A1...A4 (8) of the blocked output flashes quickly.

Fitting and electrical connection



DANGER!
Mortal danger of electric shock.
Disconnect the device. Cover up live parts.

Fitting and electrical connection

In the "Universal" operating mode, the dimming actuator only calibrates itself again after disconnection of the load and the mains voltage.

- i The detailed instructions on our website contain information on commissioning and output extension.
- o Mount device on DIN rail.
- o Maintain a distance of 18 mm, 1 module when operating multiple dimmers or power units within the same control cabinet.
- o Connect the lamp loads according to the connection example (figure 2).
- o Only possible with dimming actuator 4-gang: Several dimmer outputs can be combined for dimming greater lamp loads. Only utilise parallel-switched outputs up to 95 % each. Do not connect any LED lamps or compact fluorescent lamps to dimmer outputs switched in parallel.
- o Attach the cover cap to the bus cable connection as protection against hazardous voltages.

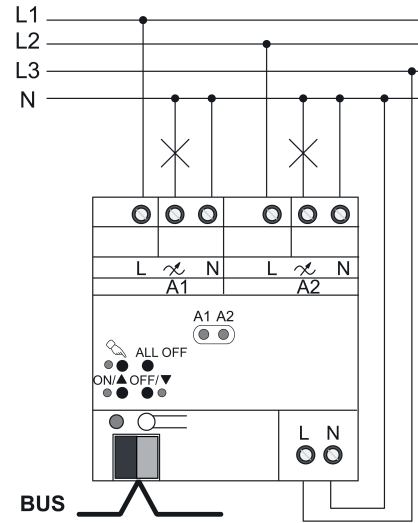


Figure 2: Connection example, lamp loads

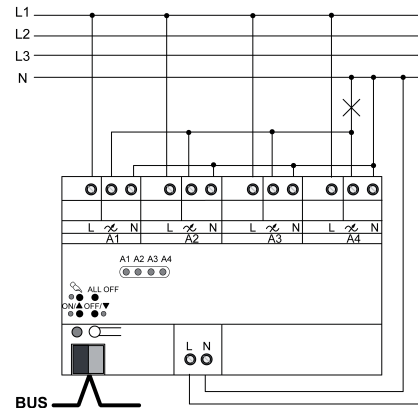


Figure 3: Connection example, parallel switching (only 4-gang dimming actuator)

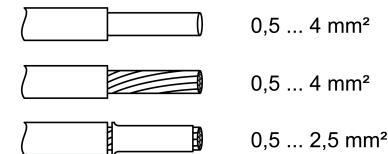


Figure 4: Clampable conductor cross-section

Information on lamp loads

- i The dimming principle in the as-delivered state: "Universal".
- i Before connecting and switching on, program the dimming principle and the output configuration.
- i If specifying the dimming principle using the ETS, ensure that the dimming principle and the connected load match.



KNX DIMMING ACTUATOR 2 GANG 300W
 Art. No. WRKT5502E5NC
KNX DIMMING ACTUATOR 4 GANG 250W
 Art. No. WRKT5404J5NC

Operating instructions



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

HOTLINE
444 8456

lstr.panasonic.com

- i Operate inductive transformers with at least 85% nominal load incl. transformer loss power. With mixed load with incandescent lamps, incandescent lamp load max. 50 %.
- i With transformers, observe the manufacturer's information on loads and the dimming principle.

HV-LED and compact fluorescent lamps:

- i Only connect lamps of one manufacturer and of the same type on the same output. Do not mix with other load types.
- i Use the settings "LED trailing edge phase control" and "LED leading edge phase control" only for HV LED lamps or compact fluorescent lamps. Preferred setting: LED trailing edge phase control for the highest possible output power.

Reset the overheating protection / short-circuit protection

The dimmer possesses electronic overtemperature and short-circuit protection. If one of them trips, disconnect the dimming actuator from the power supply for approx. 10 seconds.

Technical data

Rated voltage	AC 110 ... 230 V ~
Mains frequency	50 / 60 Hz
Power loss	
Order No. WRKT5502E5NC	max. 4 W
Order No. WRKT5404J5NC	max. 8 W
Standby power	
Order No. WRKT5502E5NC	max. 0.8 W
Order No. WRKT5404J5NC	max. 1.4 W
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-25 ... +70 °C
Contact type	ε, MOSFET

Lamp loads: See table

i With setting "LED trailing edge phase control" the connection power for HV-LED lamps and electronic transformers with LV-LED doubles.

Fitting width	
Order No. WRKT5502E5NC	72 mm / 4 modules
Order No. WRKT5404J5NC	144 mm / 8 modules
Weight	
Order No. WRKT5502E5NC	approx. 100 g
Order No. WRKT5404J5NC	approx. 220 g

KNX	
KNX medium	TP
Commissioning mode	S-mode
Rated voltage KNX	DC 21 ... 32 V SELV
Current consumption KNX	15 mA
Connection mode KNX	device connection terminal







			
			
230 V			
	W/VA	W	W/VA
2 GANG	20...300	3...60	20...100
4 GANG	20...250	3...50	20...100
110 V			
	W/VA	W	W/VA
2 GANG	20...150	3...30	20...50
4 GANG	20...120	3...24	20...50

Figure 5: Lamp loads