



WRKT5512E5NC KNX DIMMING ACTUATOR 2 GANG 300W DM102 WRKT5414J5NC KNX DIMMING ACTUATOR 4 GANG 250W DM104

WRKT5512E5NC
WRKT5414J5NC



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

Panasonic

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Product and Application Description

Panasonic Thea IQ series dimming actuators has two different DIN size. 2 channel dimming actuator in DIN4 package and a 4 channel dimming actuator in DIN8 package. Dimming actuator has a LED which indicates its status and manual control buttons for every channel. Manual buttons can activate on, off and dim functions (The bus voltage does not need to be present). Mains supplies and channel supplies completely separated from each other. If the channel is not useable LED indicators flashes every 500ms.

Features of the Dimming Actuator

- 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 lamps.
- Removable KNX bus module.
- 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).

Technical Data

General	
KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21-32 V DC
Mains supply	230 V AC
Mains frequency	50 Hz
Installation type	DIN rail
Mounting width	4 Channels – 144mm (8 modules) 2 Channels – 72mm (4 modules)
Ambient temperature	-5°C to +45°C
Storage temperature	-25°C to +55°C
Transportation temperature	-25°C to +70°C

Connection

KNX	KNX bus terminal
Mains and outputs	Screw terminals
Max. cable cross section	Single wire: 1.5 mm ² - 4 mm ² or 2 x 1.5 mm ² - 2x2.5 mm ² Stranded wire without ferrule: 0.75 mm ² - 4 mm ² Stranded wire with ferrule: 0.5 mm ² - 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 (60VA in inductive mode, auto calibration mode not recommended)	250VA (60VA in inductive mode, auto calibration mode not recommended)

Minimum Load: 3.5VA

Dimmable Loads

The device works according to the Leading edge or Trailing edge dimming principle and permits switching and dimming of HV incandescent lamps, HV halogen lamps and LV halogen lamps by means of conventional transformers, Dimmable CFL and Dimmable LED Driver loads. The recommended load type according to the "Type of connected load" parameter is shown by table.

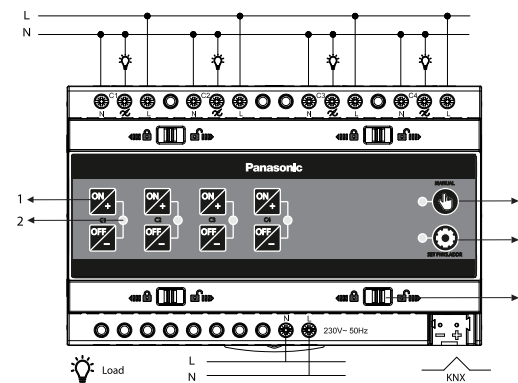
ETS Parameter	Load			
	HV halogen, Incandescent lamps	LV halogen, 12V-LED via ferromagnetic transformer (inductive)	LV halogen, 12V-LED via electronic transformer (capacitive)	LED (Retrofit), CFL
Universal	✓	✓	✓	⊘
Capacitive (Trailing Edge)	✓	⊗	✓	✓
Inductive (Leading Edge)	✓	✓	⊘	✓

✓	Usage possible
⊘	Usage not recommended
⊗	Usage is not possible (Device damage)

Warning! : If the LED load is driven by "Trailing edge" technique then select the parameter "Capacitive", or if the LED load is driven by "Leading edge" technique then select the parameter "Inductive".

Connection

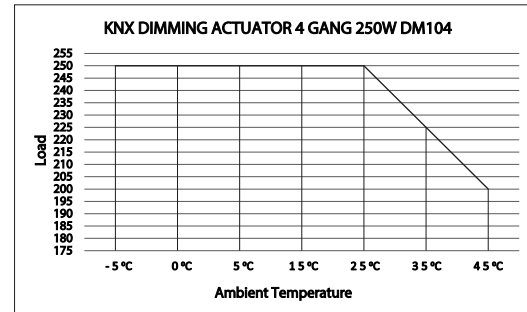
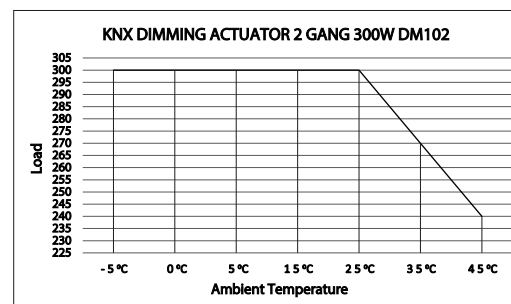
Every output (C1, C2, C3, C4 can be used separately for dimming control. Below figure shows possible connections.



- 1. Control buttons for dimming channels:** Allows control the channels manually.
- 2. Status leds for dimming channels:** When led is on the channel is on. When led is off the channel is off.
- 3. Manual button and led:** When led is on only manual control is allowed. Device does not response to bus commands.
- 4. Set physical address button and led:** KNX programming button and led.
- 5. Lock for upper and lower modules:** The device consists of two parts. Lower part which has dimming unit and upper part which runs application. KNX application is loaded to upper part of the device. Upper part can be removed with unlock all switches.

Caution

The maximum load declaration for DM102 and DM104 products of KNX Dimming Actuator is ambient temperature 25 °C and maximum mains voltage 230V AC 50Hz. If the ambient temperature is over 25 °C, the maximum load to be connected to the device should be reduced by using the following graphics.



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.

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 warranty 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;
 - Withdrawal from the contract
 - Demanding discount from sales fee
 - Demanding free repair,
 - 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 until 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".