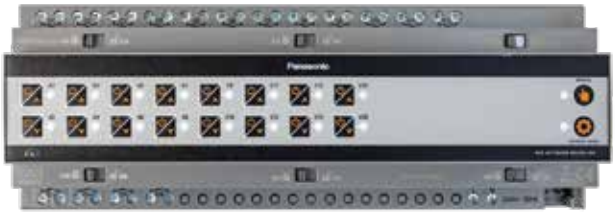
Panasonic

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.

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TECHNICAL DATA

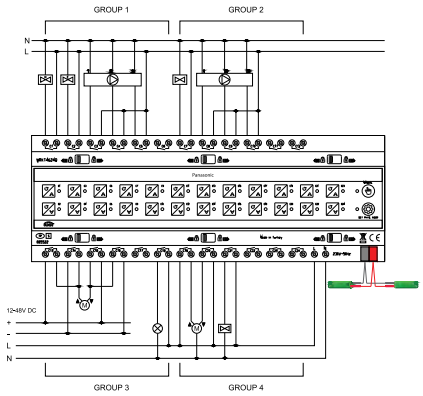
KNX Medium	TP1
Mode of commissioning	S-Mode
KNX supply	21-32V DC
Mains supply	230V AC
Mains frequency	50Hz
Installation type	DIN rail
Mounting width	4 Channels – 72 mm 8/12 Channels – 144 mm 16/20/24 Channels– 252 mm
Ambient temperature	-5 °C ...+45 °C
Storage temperature	-10 °C ... +55 °C
Transportation 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