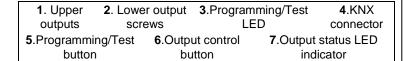


MAXinBOX 8. Multi-function actuator with 8 outputs 16A ZN1IO-MB8

Technical Documentation

FEATURES

- 8 different configurable outputs:
 - Shutter channels (up to 4).
 - Individual outputs (up to 8).
- Manual output operation with push button and LED status indicator.
- Suitable for capacitive loads, maximum 140 μF.
- Logical functions included.
- Output timing facilities.
- Total data saving on power failure
- Size 67 x 90 x 80 mm (4.5 DIN units).
- DIN rail unit assembly (EN 50022), with snap fit clamp.
- No external power supply required other than the bus.
- KNX BCU integrated.
- Possibility to connect different phases in adjoining outputs.
- CE directives compliant.



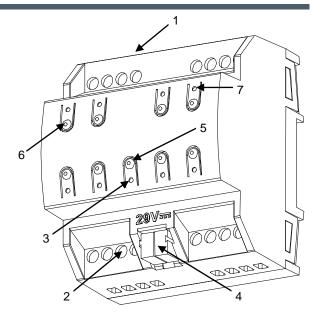


Figure 1. MAXinBOX 8

Programming/test button: short button press to set programming mode. If this button is held while plugging the device into the KNX bus, it goes into safe mode. If this button is held more than 3 seconds, the device goes into manual mode (test mode)

LED: programming mode indicator (red). When the device goes into safe mode, it blinks (red) every half second. The manual mode is indicated by the colour green. During start up (after reset or power failure) and if the device is not in safe mode, LED blinks in blue for a few seconds

CONCEPT Type of device		DESCRIPTION Electric operation control device
Voltage range	2131V DC	
Maximum consumption	160mW	
Bus connection	Typical bus connector TP1, 0,50 mm² section	
External power supply		No
Ambient temperature		from 0°C to +55°C
Storage temperature		from -20°C to +70°C
Ambient humidity		5 to 95% RH (no condensation)
Storage humidity (relative)		5 to 95% RH (no condensation)
Complementary characteristics		Class B
Safety class		
Operation type		Continuous operation
Device action type		Type 1
Electrical solicitations period		Long
Type of protection		IP20, clean environment
Assembly		Independent control assembly device to be mounted inside of electrical panels with DIN rail (EN 50022).
KNX bus failure response		Data saving and relays open if channel configured as shutter.
Response when restarting KNX bus		Data recovering and output status change according to programming when recovering.
Operation indication		Programming LED indicates programming mode (red) and test mode (green). Output status LED indicators reflect current output state.
Weight		284 g.
PCB CTI index		175 V
Enclosure		PC FR V0 halogen free

Further information www.zennio.com

OUTPUTS SPECIFICATIONS AND CONNECTIONS			
Contact type		Potential free outputs through bistable relays with tungsten pre-contact.	
Disconnection type		Micro-disconnection	
Rated current by output		~16(6)A * 250V AC (4000 VA)	
Maximum inrush current		800A/200µs (fluorescent lamps) 165A/20ms (resistive lamps)	
Outputs per common		1 individual output	
Different phases connection		Possibility to connect different phases in adjoining outputs	
Maximum current		80A	
Maximum power	Resistive load	4000W	
waximum power	Inductive load	1500W	
Connection type		Terminal block (screw)	
Recommended cable section		0,25 mm² to 4 mm²	
Cable type		Stranded or solid wire.	
Maximum response time		50 ms	
Expected life	Mechanical (min)	3 million operations (60cpm)	
	Electrical (min.)	100.000 cycles at max. current (6cpm and resistive load)	

WIRING AND ASSEMBLY DIAGRAMS

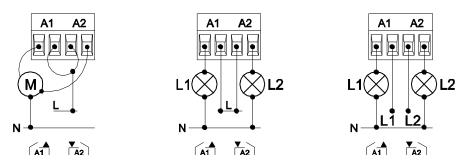
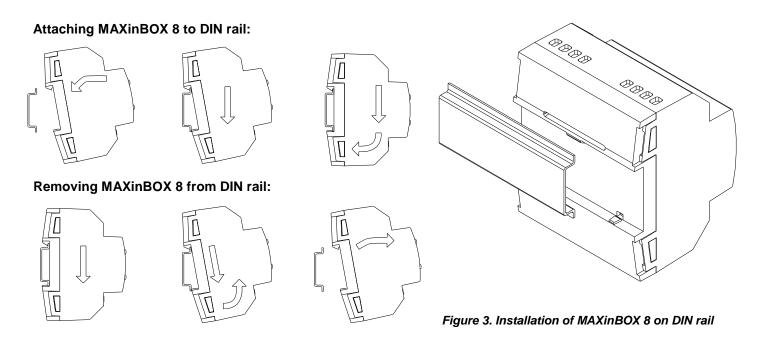


Figure 2. Wiring examples (from left to right): channel A as shutter channel and individual outputs with the same and different phases.





SAFETY INSTRUCTIONS

- Do not connect Mains Voltage (230 V) or any other external voltages to any point of the bus. Connecting an external voltage might put the entire KNX system at risk.
- Make sure during the installation that there is always sufficient insulation between the mains voltage 230V and the bus or the extension inputs.
- Once the device is installed, the output terminal should not be accessible.

Edition 3