

Multifunction actuator for flush mounting - 2 outputs (16A C-Load)

ZIO-IB20

inBOX 20

Technical Documentation

FEATURES

- 2 outputs configurable as:
 - Shutter channel.
 - Individual outputs (up to 2).
 - 10 logical functions.
- Total data saving on KNX bus failure.
- Integrated KNX BCU.
- Dimensions Ø50 x 26mm.
- Can be mounted within distribution boxes, junction boxes or wall back boxes.
- Conformity with the CE directives (CE-mark on the back side).

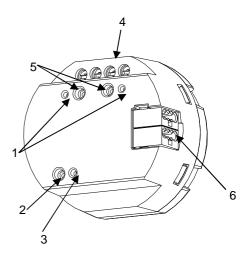


Figure 1. inBOX 20

1. Output status LEDs	2. Programming/Test button	3. Programming/Test LED
4. Outputs	5. Output control buttons	6. KNX connector

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

Programming/Test LED: programming mode indicator (red). When the device enters into safe mode, it blinks (red) every half second. The manual mode is indicated by the green color. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it starts a blue blinking sequence.

GENERAL SPECIFICATIONS						
CONCEPT			DESCRIPTION			
Type of device			Electric operation control device			
	Voltage (typica	al)	29VDC SELV			
KNX supply	Voltage range		2131VDC			
		Voltage	mA	mW		
	Maximum	29VDC (typical)	5.08	147.3		
	consumption	24VDC ⁽¹⁾	10	240		
	Connection type		Typical bus connector TP1; 0.80mm ø			
External power supply			Not required			
Operation temperature			0°C to +55°C			
Storage temperature			-20°C to +55°C			
Operation humidity			5 to 95% RH (no condensation)			
Storage humidity			5 to 95% RH (no condensation)			
Complementary characteristics		eristics	Class B			
Protection class						
Operation type			Continuous operation			
Device action type			Type 1			
Electrical stress period			Long			
Degree of protection			IP20, clean environment			
Installation			Can be mounted within distribution boxes, junction boxes or wall back boxes			
Minimum clearances			Not required			
Response on KNX bus failure		ailure	Data saving according to parameterization			
Response on KNX bus restart		estart	Data recovery according to parameterization			
Operation indicator			Programming LED indicates programming mode (red) and test mode (green). Each output LED indicates its status			
Weight			61g			
PCB CTI index			175V			
Housing	g material		PC FR V0 halogen free			

⁽¹⁾ Maximum consumption in the worst case scenario (KNX Fan-In model)

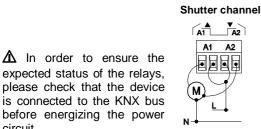
OUTPUTS SPECIFICATIONS AND CONNECTIONS				
CONCEPT		DESCRIPTION		
Contact type		Potential free outputs through bistable relays with tungsten pre-contact.		
Disconnection type		Micro-disconnection		
Rated current per output				
Maximum power per	Resistive	4000W		
output	Inductive	1500W		
Maximum inrush current		800A/200µs (fluorescent lamps) 165A/20ms (resistive lamps)		
Number of outputs		2 outputs		
Outputs per common (Channel)		1 individual output		
Total maximum current in device		20A		
Connection type		Screw terminal block		
Recommended cable section		0.5mm ² to 4mm ² (20-12 AWG)		
Maximum response time		50ms		
Lifetime	Mechanical (min)	3 million cycles (60cpm)		
Lifetime	Electrical (min.)	100,000 cycles at max. current (6cpm and resistive load)		

OUTPUTS WIRING DIAGRAM

▲ In order to ensure the expected status of the relays,

is connected to the KNX bus before energizing the power

circuit.

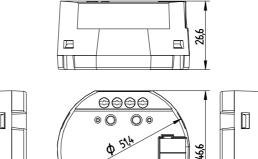


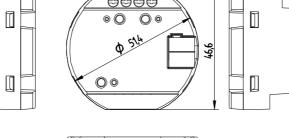




Note: In this device is not possible to connect different phases in adjoining outputs

MAIN DIMENSIONS (in mm)







∕!∖ SAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Once the device is installed (in the box), it must not be accessible from outside.
- Keep the device away from water and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at • http://zennio.com/weee-regulation.

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