•Zennio

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

ZIOIB20V2

FEATURES

- 2 configurable outputs: shutter channel or individual outputs.
- Manual output operation with push button and LED Status indicator.
- 10 logic functions.
- Output timing.
- 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).

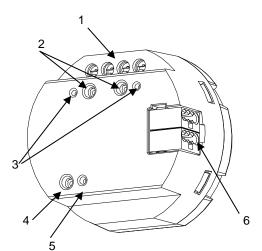


Figure 1: inBOX 20 v2

1. Outputs	Output control buttons	Output status LEDs	
4. Programming/Test button	5. Programming/Test LED	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 the 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	Type of device		Electric operation control device	ce	
Voltage (typical)		29VDC SELV			
	Voltage range		2131VDC	2131VDC	
	Maria	Voltage	mA	mW	
KNX supply	Maximum	29VDC (typical)	3.96	114.8	
	consumption	24VDC ¹	10	240	
	Connection type		Typical TP1 bus connector for	Typical TP1 bus connector for 0.80mm Ø rigid cable	
External power supply		Not required			
Operation temperature		0°C +55°C			
Storage temp	erature		-20°C +55°C		
Operation humidity		595%			
Storage humidity		595%			
Complementary characteristics		Class B			
Protection class / Overvoltage category		II / III (4000V)			
Operation type		Continuous operation			
Device action type		Туре 1			
Electrical stress period		Long			
Degree of protection / Pollution degree		IP20 / 2 (clean environment)			
Installation		Independent device to be mounted inside distribution boxes, junction boxes or wall back boxes.			
Minimum clearances		Not required			
Response on KNX bus failure		Data saving according to parameterization			
Response on KNX bus restart		Data recovery according to parameterization			
Operation indicator		The programming LED indicates programming mode (red) and test mode (green). Each output LED indicates its status			
Weight		59g	59g		
PCB CTI index		175V	175V		
Housing mate	Housing material / Ball pressure test temperature		PC FR V0 halogen free / 75°C	PC FR V0 halogen free / 75°C (housing) - 125°C (connectors)	

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

TECHNICAL DOCUMENTATION

inBOX 20 v2

OUTPUTS SPECIFICATIONS AND CONNECTIONS					
CONCEPT		DESCRIPTION			
Number of outputs		2			
Output type / Disconnection type		Potential-free outputs through bistable relays with tungsten pre-contact / Micro-disconnection			
Rated current per output		AC 16(6)A @ 250VAC (4000VA) DC 7A @ 30VDC (210W)			
	Resistive	4000W			
Maximum load per output	Inductive	1500VA			
Maximum inrush current		800A/200µs 165A/20ms			
Total maximum current in device		20A			
Short-circuit protection		NO			
Overload protection		NO			
Connection method		Screw terminal block			
Cable cross-section		0.5-4mm ² (IEC) / 20-12AWG (UL)			
Outputs per common		2			
Maximum response time		10ms			
Mechanical lifetime (min. cycles)		3 000 000			
Electrical lifetime (min. cycles) ¹		100000 @ 8A / 25000 @ 16A (VAC)			

¹ Lifetime values could change depending on the load type.

WIRING DIAGRAMS

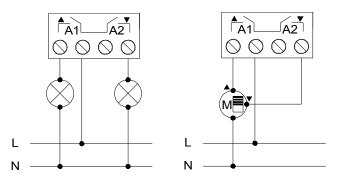
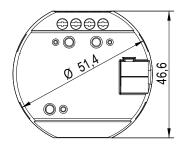


Figure 2. Wiring example (from left to right): 2 individual loads and 1 shutter channel.

DIMENSIONS





▲ 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 panel or box), it must not be accessible from outside.
- Keep the device away from water (condensation over the device included) 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.

 \bigtriangleup In order to ensure the expected status of the relays, please check that the device is connected to the KNX bus before energizing the power circuit.

 \triangle It is not possible to connect different phases on this device.