

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

ZIOIB20VT TECHNICAL DOCUMENTATION

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 or wall back boxes
- Conformity with the CE directives (CE-mark on the back side)

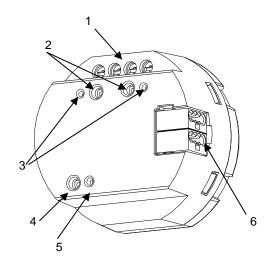


Figure 1: inBOX 20 vT

1. Outputs	Output control buttons	Output status LEDs
4. Programming/Test button	Programming/Test LED	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	DESCRIPTION		
Type of device		Electric operation control devi	Electric operation control device		
Voltage (typical)		al)	29VDC SELV		
KNX supply	Voltage range		2131VDC	2131VDC	
	Maximum	Voltage	mA	mW	
Trivit Supply	consumption	29VDC (typical)	3.96	114.8	
		24VDC ¹	10	240	
	Connection type			Typical TP1 bus connector for 0.80mm Ø rigid cable	
External power supply		Not required			
Operation temperature			0°C +55°C		
	Storage temperature			-20°C +55°C	
Operation humidity			5 95%		
Storage humidity			5 95%		
	Complementary characteristics			Class B	
Protection class / Overvoltage category			II / III (4000V)		
Operation type			Continuous operation		
Device action type		Type 1	Type 1		
Electrical stress period		Long	<u> </u>		
Degree of protection / Pollution degree			IP20 / 2 (clean environment)		
Installation		Independent device to be mo	Independent device to be mounted inside distribution boxes or wall back		
		boxes			
	Minimum clearances			Not required	
	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			
PCB CTI index	x		175V	175V	
Housing mate	rial / Ball pressu	ure 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).

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)		
Maximum land man autout	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

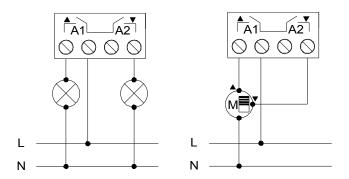
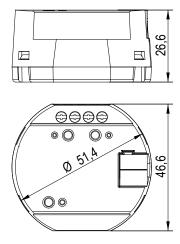


Figure 2. Wiring example (from left to right): 2 individual loads and 1 shutter channel.

⚠ 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.

DIMENSIONS





SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

- 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 https://www.zennio.com/en/legal/weee-regulation.
- This device contains software subject to specific licences. For details, please refer to http://zennio.com/licenses.