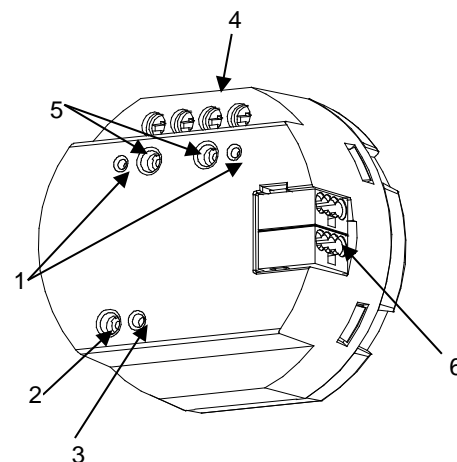


## FEATURES

- 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.



**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 button press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters into safe mode. If this button is held more than 3 seconds, the device enters into 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 makes a blue flashing for a few seconds.

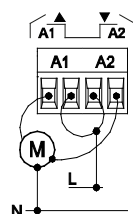
GENERAL SPECIFICATIONS				
CONCEPT			DESCRIPTION	
Type of device			Electric operation control device	
KNX supply	Voltage (typical)		29VDC SELV	
	Voltage range		21...31VDC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	5.08	147.3
		24VDC <sup>(1)</sup>	10	240
Connection type		Typical bus connector 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			Class B	
Protection class			II	
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			Data saving according to parameterization	
Response on KNX bus restart			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 material			PC FR V0 halogen free	

<sup>(1)</sup> Maximum consumption in the worst case scenario (KNX Fan-In model)

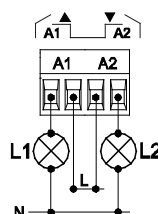
OUTPUTS SPECIFICATIONS AND CONNECTIONS			
CONCEPT		DESCRIPTION	
Contact type		Potential free outputs through bistable relays with tungsten pre-contact.	
Disconnection type		Micro-disconnection	
Rated current per output		$\sim$ 16(6)A * 250VAC (4000VA) $\equiv$ 16(6)A * 30VDC (480W)	
Maximum power per output	Resistive	4000W	
	Inductive	1500W	
Maximum inrush current		800A/200 $\mu$ s (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 <sup>2</sup> to 4mm <sup>2</sup> (20-12 AWG)	
Maximum response time		50ms	
Lifetime	Mechanical (min)	3 million cycles (60cpm)	
	Electrical (min.)	100,000 cycles at max. current (6cpm and resistive load)	

## OUTPUTS WIRING DIAGRAM

Shutter channel

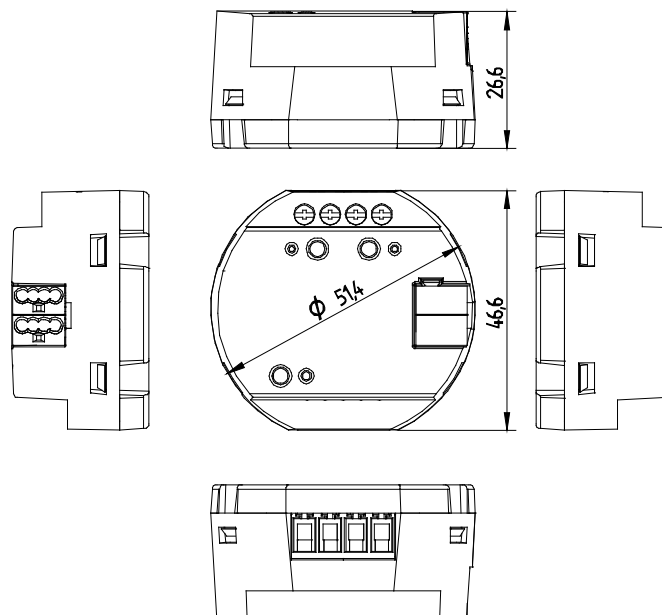


Individual outputs



**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>.

