

FEATURES

- 4 connections configurable as binary input, LED output or solid-state switch control output
- Total data saving on power failure
- Integrated KNX BCU (TP1-256)
- Reduced size: 39 x 39 x 10.5 mm
- Can be mounted within distribution boxes or wall back boxes
- Conformity with the CE, UKCA, RCM directives (marks on the front side)

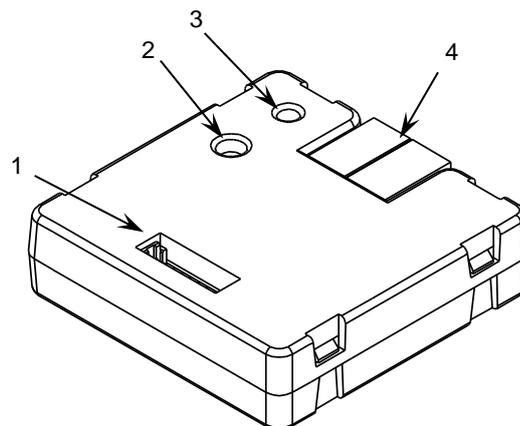


Figure 1: BIN 4X

| | | | |
|----------------------------|-----------------------|--------------------|------------------|
| 1. Binary inputs / Outputs | 2. Programming button | 3. Programming LED | 4. KNX connector |
|----------------------------|-----------------------|--------------------|------------------|

Programming 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.

Programming LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it emits a red flash.

| GENERAL SPECIFICATIONS | | | | |
|-------------------------------|---------------------|---|-------------|-------|
| CONCEPT | | DESCRIPTION | | |
| Type of device | | Electric operation control device | | |
| KNX supply | Voltage (typical) | | 29 VDC SELV | |
| | Voltage range | | 21-31 VDC | |
| | Maximum consumption | Voltage | mA | mW |
| | | 29 VDC (typical) | 11.7 | 339.3 |
| | 24 VDC ¹ | 15 | 360 | |
| Connection type | | Typical TP1 bus connector for 0.8 mm Ø rigid cable | | |
| External power supply | | Not required | | |
| Operation temperature | | 0 .. +55 °C | | |
| Storage temperature | | -20 .. +55 °C | | |
| Operation humidity | | 5 .. 95% | | |
| Storage humidity | | 5 .. 95% | | |
| Complementary characteristics | | Class B | | |
| Protection class | | III | | |
| Operation type | | Continuous operation | | |
| Device action type | | Type 1 | | |
| Electrical stress period | | Long | | |
| Degree of protection | | IP20, clean environment | | |
| Installation | | Independent device to be mounted in distribution 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). | | |
| Weight | | 18 g | | |
| PCB CTI index | | 175 V | | |
| Housing material | | PC FR V0 halogen free | | |

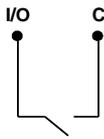
¹ Maximum consumption in the worst-case scenario (KNX Fan-In model).

| BINARY INPUTS SPECIFICATIONS AND CONNECTIONS | |
|--|---|
| CONCEPT | DESCRIPTION |
| Number of inputs/outputs | 4 |
| Inputs per common | 1 |
| Input/output voltage | Adapted to the load up to a maximum value of 12 VDC for each output |
| Input/output current | 2 mA |
| Switching type | Dry voltage contacts between input and common |
| Connection method | 8-wire connector with cable (included) |
| Cable cross-section | 0.08 mm ² (28 AWG) – 30 cm length |
| Maximum cable length | 30 m (@ 1 mm ²) |
| Maximum response time | 10 ms |

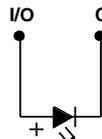
WIRING DIAGRAMS

Any combination of the next devices is allowed in the different inputs/outputs, although the simultaneous connection of a switch and outputs in the same port is not allowed:

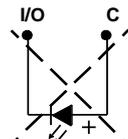
Binary input



LED Output

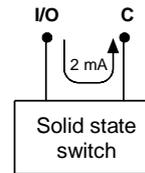


✓ Right load wiring

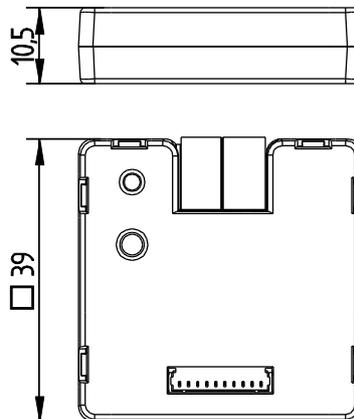


✗ Wrong load wiring

Solid-state switch control output



DIMENSIONS (mm)



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>.