

### FEATURES

- 4 configurable inputs as binary input, temperature probe (NTC with customizable curve or PT1000) or motion sensor
- With input status LED indicators
- Supports KNX Data Secure
- 4 thermostats
- Total data saving on KNX bus failure
- Integrated KNX BCU (TP1-256)
- No external supply required different from bus
- Dimensions: 39.1 x 39.1 x 14 mm
- Can be mounted within distribution boxes or wall back boxes or DIN rail
- Conformity with the CE, RCM directives (marks on the front side)

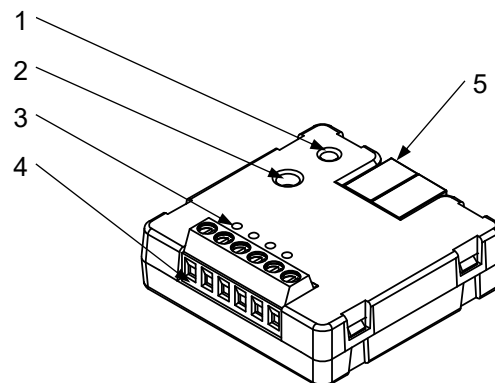


Figure 1: QUAD v3

1. Programming LED	2. Programming button	3. Inputs status LED
4. Inputs		5. 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. In order to perform a KNX Secure factory reset, while the device is in safe mode, press the button for 10 seconds until the programming LED changes its state.

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)	4.8	139.2
		24 VDC <sup>1</sup>	10	240
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). Each input LED indicates its status and it flashes on error or tampering of the input.	
Weight			14 g	
Housing material			PC FR V0 halogen free	

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

INPUTS SPECIFICATIONS AND CONNECTIONS	
CONCEPT	DESCRIPTION
Number of inputs	4
Inputs per common	2
Operation voltage	3.3 VDC in the common
Operation current	1 mA @ 3.3 VDC (per input)
Switching type	Dry voltage contacts between input and common
Connection method	Screw terminal block (0.2 Nm max.)
Cable cross-section	0.5-1 mm <sup>2</sup> (IEC) / 26-16 AWG (UL)
Maximum cable length <sup>2</sup>	30 m
NTC/PT1000 probe length	1.5 m (extensible up to 30 m)
NTC/PT1000 accuracy (@ 25 °C) <sup>3</sup>	±0.5 °C
Temperature resolution	0.1 °C
Maximum response time	10 ms

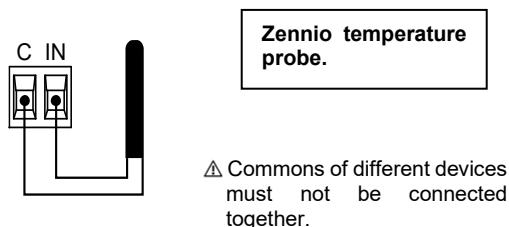
<sup>2</sup> In case of using a PT1000 temperature probe, compensation depending on the length and cross-section of the cable used must be taken into account by appropriately parameterizing these fields in the application program.

<sup>3</sup> For Zennio temperature probes.

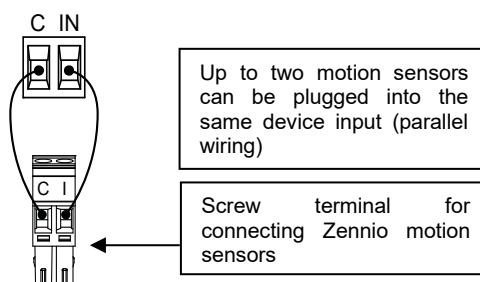
## INPUTS CONNECTION

Any combination of the following accessories is allowed on the inputs:

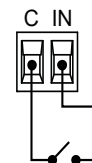
### Temperature Probe\*



### Motion Sensor

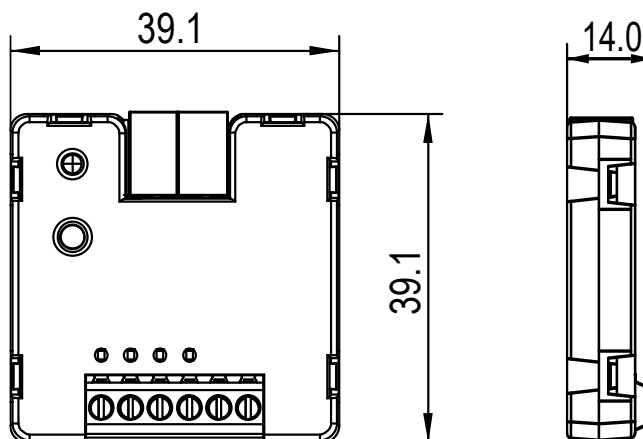


### Switch/Sensor/ Push button



\* Zennio temperature probe, any NTC probe with known resistance values at three points in the range [-55, 150 °C] or PT1000 probe.

## 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>.