FEATURES

- Four configurable inputs as:
  - Binary input.
  - Temperature probe (NTC with customizable curve).
  - Motion sensor.
- 4 thermostats.
- Total data saving on KNX bus failure.
- Dimensions: 39 x 39 x 14mm.
- No external supply required different from bus.
- Can be mounted within distribution boxes, junction boxes, wall back boxes or DIN rail.
- Integrated KNX BCU.
- Conformity with the CE directives (CE-mark on the front side).

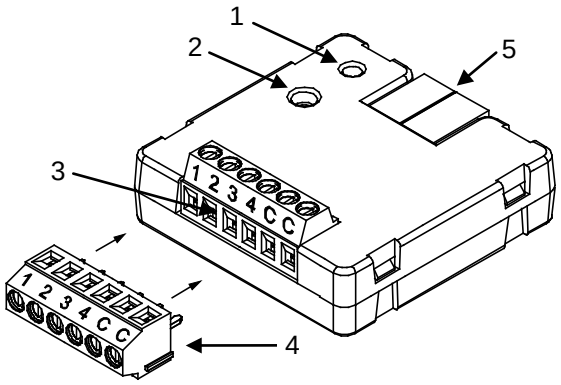


Figure 1: QUAD Plus

1. Programming LED	**2.** Programming button	**3.** Inputs	**4.** Optional connector	**5.** KNX connector

Programming button: short button press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters in safe mode.
Programming LED: programming mode indicator (red). When the device enters into 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.

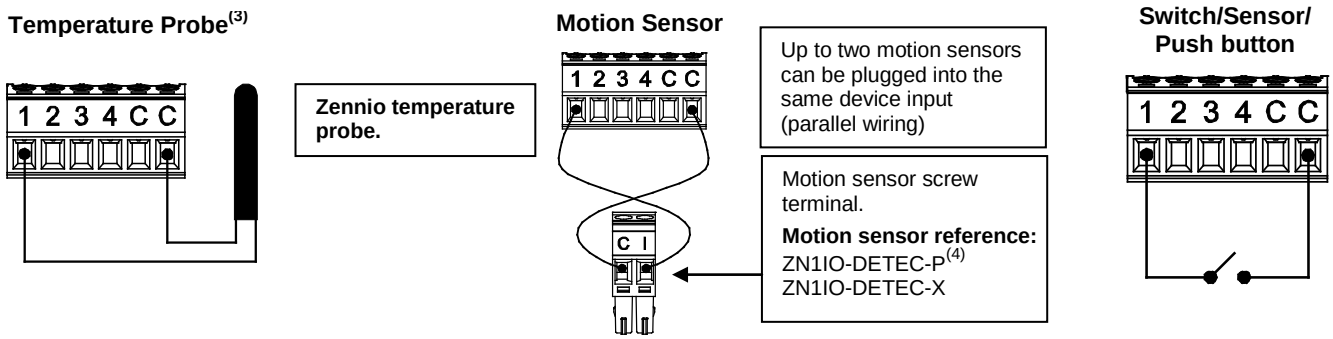
GENERAL SPECIFICATIONS				
CONCEPT			**DESCRIPTION**	
Type of device			Electric operation control device	
KNX supply	Voltage (typical)		29V DC SELV	
	Voltage range		21…31VDC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	6	174
		24VDC[(1)]	10	240
	Connection type		Typical TP1 bus connector; 0.80mm² section	
External power supply			No	
Operation temperature			0ºC to +55ºC	
Storage temperature			-20ºC to +70ºC	
Operation humidity			5 to 95% RH (no condensation)	
Storage humidity			5 to 95% RH (no condensation)	
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 within distribution boxes, junction boxes, wall back boxes or DIN rail.	
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 indication			Programming LED indicates programming mode (red).	
Weight			17g	
PCB CTI index			175V	
Housing material			PC FR V0 halogen free	

[(1)] 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	3.3VDC in the common
Operation current	1.0mA @ 3.3VDC (per input)
Input impedance	Aprox. 3.3kΩ
Switching type	Dry voltage contacts between input and common
Connection method	Screw terminal block
Max. cable length	30m
NTC probe length	1.5m (up to 30m)
NTC accuracy (@ 25ºC) [2]	±0.5ºC
Temperature resolution	0.1ºC
Cable cross-section	0.5mm² to 1.0mm² (26-16 AWG)
Maximum response time	10ms

[2] For Zennio temperature probes.

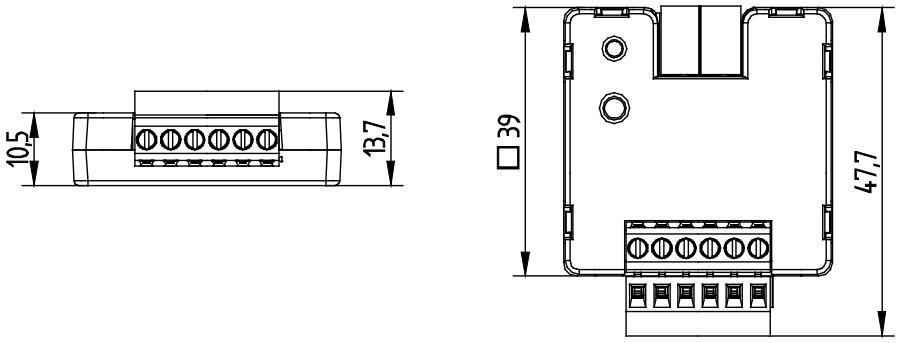
Any combination of the next **accessories** is allowed in the inputs:



(3) The probe can be a Zennio one or a NTC probe with known resistances for three temperatures in the range [-55, 150ºC].

(4) The micro switch number 2 in the ZN1IO-DETEC-P sensor **must be in Type B position** to work properly.

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 panel or 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.