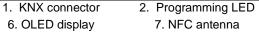


TECHNICAL DOCUMENTATION

FEATURES

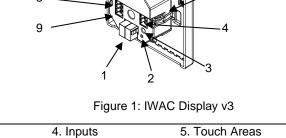
- Room access control through NFC technology access cards (MIFARE DESFire EV1 and MIFARE Classic).
- 3 touch areas.
- Encrypted serial communication with Securel v2 (ZIOSECV2) within the secure zone.
- Sound notifications and visual notifications through OLED display.
- Total data saving on power failure.
- · Auxiliary power supply required.
- 2 inputs configurable as binary input, temperature probe or motion detector.
- Integrated KNX BCU.
- Dimensions 81 x 81 x 28mm.
- Flush mount in mechanism box.
- Conformity with CE directives (CE-mark on the back side).



Programming button
 Auxiliary power

4. Inputs
9. Encrypted communication port

5. Touch Areas 10. Fixing clips



supply communication port

Programming button: short button press to set programming mode. If this button is held while connecting the device to the auxiliary power supply, 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 start up (after reset or power failure) and if the device is not in safe mode, indicator makes a red flash.

GENERAL SPECIFICATIONS CONCEPT			DESCRIPTION	
Type of device			Electric operation control device	
Voltage (typical)		al)	29VDC SELV	
KNX supply	Voltage range		2131VDC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	3.45	100.1
		24VDC ¹	10	240
	Connection type		Typical TP1 bus connector for 0.80mm Ø rigid cable	
External power supply			24VDC. Maximum consumption: 50mA	
Operation temperature			5°C +45°C	
Storage temperature			-20°C +55°C	
Operation humidity			5 95%	
Storage humidity			5 95%	
Complementary characteristics			Class B	
Protection class				
Operation type			Continuous operation	
Device action type			Type 1	
Electrical stress period			Long	
Degree of protection			IP20, clean environment	
Installation			Flush mount on mechanism box.	
Minimum clearances			Not required	
Response on external power supply failure			Data saving according to parameterization	
Response on external power supply restart			Data recovery according to parameterization	
Operation indicator			Programming LED indicates programming mode (red). The display indicates the number or name of the room.	
Weight			98g	
PCB CTI index			175V	
Housing material			PC+ABS 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	2		
Inputs per common	2		
Operation voltage	+3.3VDC in the common		
Operation current	1mA @ 3.3VDC (per input)		
Switching type	Dry voltage contacts between input and common		
Connection method	Pluggable screw terminal block		
Cable cross-section	0.2-1.5mm ² (IEC) / 28-14AWG (UL)		
Maximum cable length	30m		
NTC probe length	1.5m (up to 30m)		
NTC accuracy (@ 25°C) ²	±0.5°C		
Temperature resolution	0.1°C		
Maximum response time	10ms		

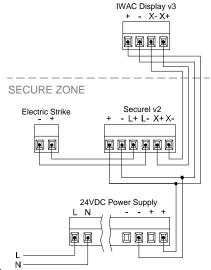
² For Zennio temperature probes.

EXTERNAL POWER SUPPLY SPECIFICATIONS AND CONNECTIONS			
CONCEPT	DESCRIPTION		
Voltage	24VDC		
Current	50mA		
Connection method	Pluggable screw terminal block		
Cable cross-section	0.2-1.5mm ² (IEC) / 28-14AWG (UL)		

INPUTS CONNECTION

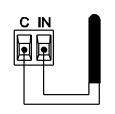
Any combination of the following accessories is allowed in the inputs:

POWER SUPPLY / COMMUNICATION **CONNECTION DIAGRAM**

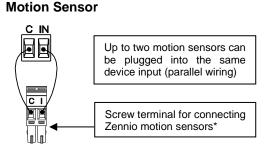


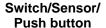
Important: The auxiliary 24VDC power must remain connected to the device during downloads through the KNX bus.

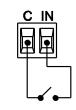
Temperature Probe**



Zennio temperature probe.

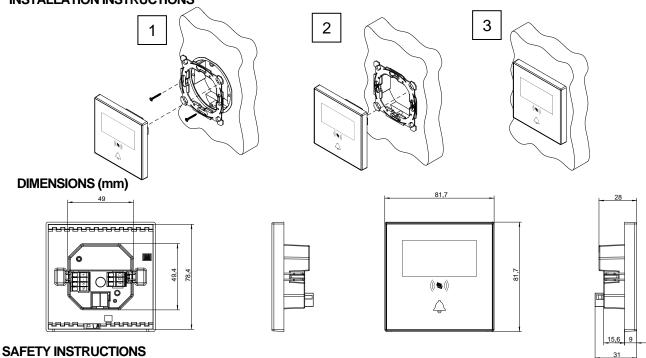






- * In case of using ZN1IO-DETEC-P sensor, its micro switch number 2 must be in Type B position.
- ** Zennio temperature probe or any NTC with known resistance values at three points in the range [-55, 150°C].

INSTALLATION 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.
- Keep the device away from water (condensation over the device included) and do not cover it with clothes, paper or any other material
- 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.