

Access Controller with display ZVI-IWACD

FEATURES

- Room access control through NFC technology access cards (Mifare DESFIRE EV1).
- 3 touch areas.
- Encrypted serial communication with Securel (ZIO-SEC) within the safe 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).

Technical Documentation

IWAC Display

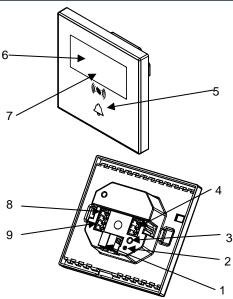


Figure 1. IWAC Display

1. KNX connector	2 . Pro	gramming LED	3. Programming button	4. Inputs
5. Touch areas	6. OLED display	7. NFC antenna	8. Auxiliary Power Supply	9. Encrypted communication port

Programming 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.

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.

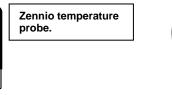
GENER	RAL SPECIFIC	ATIONS				
CONCEPT			DESCRIPTION			
Type of device			Electric operation control device			
Voltage (typical)		al)	29VDC SELV			
Voltage range			2131VDC			
supply		Voltage	mA	mW		
	Maximum	29VDC (typical)	3.03	87.87		
	consumption	24VDC ⁽¹⁾	10	240		
	Bus connectio	n	Typical bus connector TP1 for rigid cable 0.80mm ø			
External power supply				24VDC. Maximum consumption: 60mA		
Operation temperature			from 5°C to +45°C			
Storage temperature			from -20°C to +55°C			
Operation humidity			5 to 95% RH (no condensation)			
Storage humidity			5 to 95% RH (no condensation)			
Complementary characteristics		eristics	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 in mechanism box			
Minimum clearances			Not required			
Response on KNX bus failure		ailure	Data saving according to parameterization			
Response on KNX bus restart		estart	Data recovery according to parameterization			
Operation indicator			Programming LED indicates programming mode (red). The display indicates the number of the room.			
Weight			86g			
PCB CTI index			175V			
Housing	material		PC+ABS FR V0 halogen free			

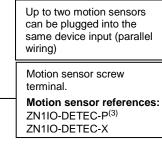
⁽¹⁾ Maximum consumption in the worst case scenario (KNX Fan-In model)

CONCEPT	DESCRIPTION
Voltage range	24VDC
Current range	60mA
Connection method	Cable screw terminal
Cable cross-section	0.5mm ² to 1.5mm ² (26-14AWG)
INPUT SPECIFICATIONS A	ND CONNECTIONS
CONCEPT	DESCRIPTION
Number of inputs	2
Inputs per common	2
Operation voltage	+3.3VDC in the common
Operation current	1.0mA @ 3.3VDC (per input)
Impendace per input	Approx. 3.3kΩ
Switching type	Dry voltage contacts between input and common
Connection method	Pluggable screw terminal block
Maximum cable length	30m
NTC probe length	1.5m (up to 30m)
NTC accuracy (@ 25ºC)	±0.5°C
Temperature resolution	0.1°C
Cable cross-section	0.5mm ² to 1.5mm ² (26-14AWG)
Maximum response time	10ms

Any combination of the next accessories is allowed in the inputs: **Temperature Probe** Motion Sensor



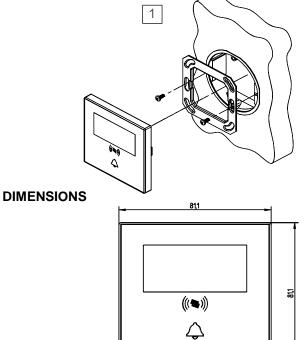


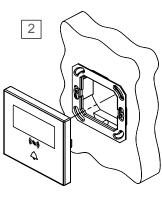


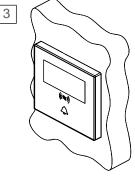
⁽³⁾ The micro switch number 2 in the ZN1IO-DETEC-P must be in Type B position to work properly.

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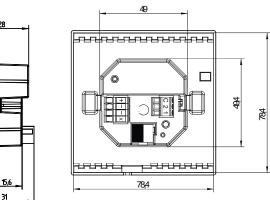
INSTALLATION INSTRUCTIONS







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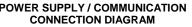
SAFETY INSTRUCTIONS

- 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.
- 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.

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Edition 1

Further information www.zennio.com



IWAC Display (ZVI-IWACD) -- 🕁 + - - X

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