

#### ZVIIWACDV3

## FEATURES

- Room access control through NFC technology access cards and Bluetooth communication. Compatible cards:
  - MIFARE DESFire 2K
  - MIFARE Classic 1K
- Available in the following colors: silver (RAL 9006), anthracite black (RAL 9004) and white (RAL 9016)
- 3 touch areas
- Encrypted serial communication with Securel v3 (ZIOSECV3) within the secure zone
- Sound notifications and visual notifications through OLED display (128x64 pixels)
- Auxiliary power supply required
- 2 inputs configurable as binary input, temperature probe or motion detector
- Total data saving on power failure
- Integrated KNX BCU (TP1-256)
- Dimensions 81 x 81 x 25 mm
- Flush mount on back box
- Conformity with CE, UKCA directives (marks on the back side)

## **TECHNICAL DOCUMENTATION**

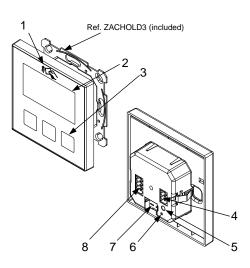


Figure 1: IWAC Display v3

<ol> <li>NFC and Bluetooth antennas</li> <li>Programming button</li> </ol>	2. OLED display 6. Programming LED	<ol> <li>Touch Areas</li> <li>KNX connector</li> </ol>	<ol> <li>Inputs</li> <li>Encrypted communication port and auxiliary power supply</li> </ol>	
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	SPECIFICATIO	ONS			
CONCEPT		DESCRIPTION			
Type of device		Electric operation control device			
	Voltage (typical)		29 VDC SELV		
KNX supply Max	Voltage range		21-31 VDC	21-31 VDC	
	Maximum	Voltage	mA	mW	
	consumption	29 VDC (typical)	3.45	100.1	
	•	24 VDC <sup>1</sup>	10	240	
	Connection ty	ре	Typical TP1 bus connector fo		
External pow	External power supply		24 VDC. Maximum consumpt	24 VDC. Maximum consumption: 50 mA	
Operation ter			5 +45 °C		
	Storage temperature		-20 +55 °C	-20 +55 °C	
	Operation humidity		5 95%	5 95%	
	Storage humidity			595%	
Complementary characteristics		Class B	Class B		
Protection class					
Operation type		Continuous operation			
Device action type		Туре 1			
Electrical stress period		Long			
Degree of protection		IP20, clean environment			
	Installation		Flush mount on back box		
Minimum clea			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			98 g		
Housing material		PC+ABS FR V0 halogen free	PC+ABS 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	2	
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	Pluggable screw terminal block (0.2 Nm max.)	
Cable cross-section	0.2-1.5 mm <sup>2</sup> (IEC) / 28-14 AWG (UL)	
Maximum cable length	30 m	
NTC accuracy (@ 25 °C) <sup>2</sup>	±0.5 °C	
Temperature resolution	0.1 °C	
Maximum response time	10 ms	
For Zennio temperature probes.		

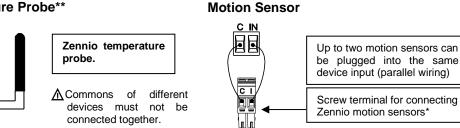
EXTERNAL POWER SUPPLY SPECIFICATIONS AND CONNECTIONS			
CONCEPT	DESCRIPTION		
Voltage	24 VDC		
Current	50 mA		
Connection method	Pluggable screw terminal block (0.2 Nm max.)		
Cable cross-section	0.2-1.5 mm <sup>2</sup> (IEC) / 28-14 AWG (UL)		

# **INPUTS CONNECTION**

C IN

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

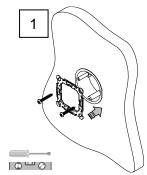
#### **Temperature Probe\*\***

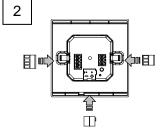


\* In case of using ZN1IO-DETEC-P sensor, its micro switch number 2 must be in Type B position.

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

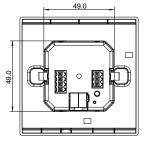
### INSTALLATION INSTRUCTIONS

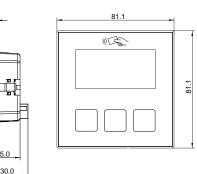




 $\underline{\Lambda}$  Important: Avoid pressing on the display during the installation to prevent accidental damages to the device.

**DIMENSIONS (mm)** 





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pressing on the display

anti-

Avoid

# SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.

25.0

- 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 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.
  - This device contains software subject to specific licences. For details, please refer to https://zennio.com/licenses.

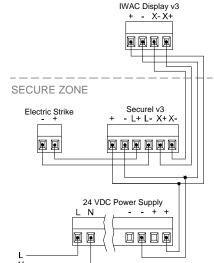
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Further information www.zennio.com

Switch/Sensor/ **Push button** 



**POWER SUPPLY / COMMUNICATION CONNECTION DIAGRAM** 



Important: The auxiliary 24 VDC power must remain connected to the device during

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downloads through the KNX bus.