# •Zennio

55x55mm capacitive glass touch panel with round display

ZVI-F55D

#### FEATURES

- Customizable printed glass with 4 touch areas with backlight.
- 1.18" OLED display (128x128 pixels).
- 2 analog/digital inputs.
- Thermostat.
- Clock functionality (subject to updating through devices with RTC or NTP client).
- Touch confirmation through acoustic feedback.
- Proximity and luminosity sensor.
- Total data saving on KNX bus failure.
- Integrated KNX BCU.
- Dimensions 55 x 55 x 36mm.
- Flush mounted in mechanism box.
- Conformity with the CE directives (CE-mark on the back side).

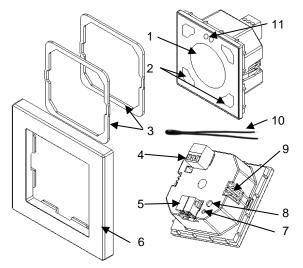


Figure 1: Flat 55 Display

1. Display	2. Touch areas	3. Metallic levelling plate (1 and 1.5mm)	4. Inputs connector	
5. KNX connector	6. Frame (sold separately)	7. Programming LED	8. Programming button	
9. Fixing clips	10. Temperature probe ref. 990	0015 (included) <b>11.</b> Luminosity a	11. Luminosity and proximity sensor	

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.

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 S	GENERAL SPECIFICATIONS					
CONCEPT			DESCRIPTION			
Type of device		Electric operation control device				
Voltage (typical)		al)	29VDC SELV			
KNX supply	Voltage range		2131VDC			
	Maximum	Voltage	mA	mW		
		29VDC (typical)	20.6	597.4		
	consumption	24VDC <sup>1</sup>	25	600		
	Connection type		Typical TP1 bus connector for 0.8	Typical TP1 bus connector for 0.80mm Ø rigid cable		
External power supply		Not required				
Operation temperature		0°C +55°C				
Storage temperature		-20°C +55°C				
Operation humidity			595%	595%		
Storage humidity			595%	595%		
Complementary characteristics			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 mechanism box.				
Minimum clea	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). Backlighting of touch areas and display depending on their / the parameterization.				
Weight		68g				
PCB CTI index		175V				
Housing mate	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)

## Flat 55 Display

TECHNICAL DOCUMENTATION

INPUTS SPECIFICATIONS AND 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 <sup>2</sup> (IEC) / 28-14AWG (UL)
Maximum cable length	30m
NTC probe length	1m (up to 30m)
NTC accuracy (@ 25°C) <sup>2</sup>	±0.5°C
Temperature resolution	0.1°C
Maximum response time	10ms
For Zennio temperature probes.	
FRAME TEMPERATURE SENSOR SPEC	IFICATIONS

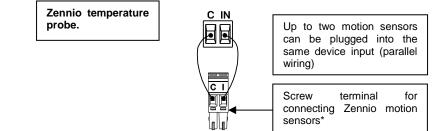
CONCEPT	DESCRIPTION
Measuring range	-40 +105°C
Temperature resolution	0.1°C
NTC accuracy (@ 25°C)	±0.5°C

#### INPUTS CONNECTION

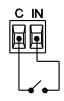
Any combination of the following accessories is allowed in the inputs: Temperature Probe\*\* \*\*

**Motion Sensor** 





Switch/Sensor/ **Push button** 

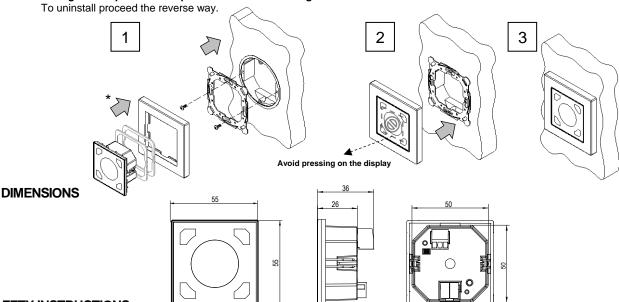


\* In case of using ZN1IO-DETEC-P sensor, its micro switch number 2 must be in Type B position.

- \*\* May be a Zennio temperature probe or any NTC with known resistance values at three points in the range [-55, 150°C].
- \*\*\* To use the included temperature probe, a proper thermal transfer must be ensured, for example, by installing it in a cable outlet or by drilling a small hole in case of using the frame of the device itself.

#### INSTALLATION INSTRUCTIONS

- Please, fix the metal plate into a square or round flush box with the screws from the box. 1.
- \* (Optional) Insert the metallic levelling plate/s so the frame stays at the desired level.
- Connect the KNX bus and the inputs terminal to the back of the device. Fix the frame to the device. 2.
- 3. Fit the device into its final position and check that the strength of the clips is enough to fix the device. Avoid pressing on the display during this step in order to prevent accidental damages to the device.



### 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 (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 http://zennio.com/weee-regulation.

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