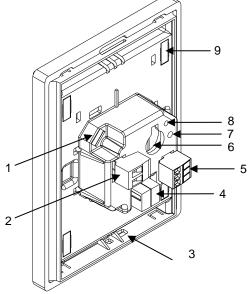
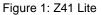
•Zennio® Capacitive color touch panel

ZVI-Z41LIT

FEATURES

- 4.1" capacitive color touch panel
- 16 million color LCD display
- Up to 12 configurable pages
- Up to 96 configurable direct control and/or indicator functions
- 2 independent thermostats
- 2 analog/digital inputs
- Customized device orientation (Vertical or Horizontal)
- Built-in temperature sensor
- Real Time Clock (RTC) with watch battery
- External 12-29VDC power supply
- Integrated KNX BCU
- Mini-USB connection
- Magnetic fit
- Complete data saving in case of KNX bus failure
- Conformity with the CE directives (CE-mark on the back side)





1. Mini-USB connector	2. External po	wer supply connector	3. Temperature probe	KNX connector
5. A/D inputs	6. Battery	7.Programming button	8. Programming LED	9. Magnet

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 SPECIFICATIONS						
CONCEPT		DESCRIPTION	DESCRIPTION			
Type of device		Electric operation control devic	Electric operation control device			
	Voltage (typica	al)	29VDC SELV			
	Voltage range		2131VDC	2131VDC		
KNX supply	Maximum consumption	Voltage	mA	mW		
		29VDC (typical)	6	174		
	consumption	24VDC ¹	10	240		
	Connection ty	ре	Typical TP1 bus connector for	Typical TP1 bus connector for 0.80mm Ø rigid cable		
External power supply			12- 29 VDC. Maximum consumption: 250mA (12VDC), 112mA (24VDC), 86mA (29VDC). Do not connect 29VDC KNX bus as external power supply			
Operation ten	nperature		5°C +45°C			
Storage temperature		-20°C +55°C				
Operation hu	midity		5 95%			
Storage humi	dity		5 95%			
Complementa	ary characteristic	S	Class B			
Protection cla	SS					
Operation typ	е		Continuous operation	Continuous operation		
Device action type		Type 1				
Electrical stre	ss period		Long			
Degree of pro	otection		IP20, clean environment	IP20, clean environment		
Installation			Portrait or landscape position, with the temperature sensor at the bottom or right, respectively. Magnetic fit. See Installation instructions section.			
Minimum clearances			Please, keep away from heat and cold air flows to get better temperature			
Response on	KNX bus failure		Data saving according to parar	Data saving according to parameterization. Initialization screen.		
	KNX bus restart			Data recovery according to parameterization		
Response on	power supply fa	ilure		Complete data saving. Display is switched off		
Response on power supply recovery		Current data recovery				
Operation indicator		Several on display as programmed				
Accessories		Mini USB A-B cable Ref. ZN1AC-UPUSB (not included)				
Weight		229g (Al) / 221g (PC)	229g (Al) / 221g (PC)			
PCB CTI index		175V				
Housing mate	erial		PC+ABS FR V0 halogen free	PC+ABS FR V0 halogen free		
		rst-case scenario (KNX Fa	n In model)			

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

Z41 Lite

TECHNICAL DOCUMENTATION

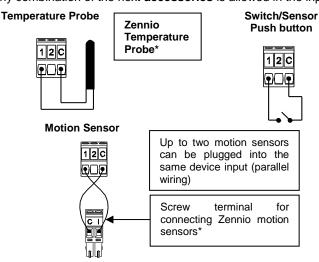
INTERNAL TEMPERATURE SENSOR AND CLOCK SPECIFICATIONS					
CONCEPT			DESCRIPTION		
Temp. Probe	Measuring range		-10°C to 50°C		
	NTC accuracy (@ 25°C	;)	±0.5°C		
	Temperature resolution		0.1°C		
	Calibration		The temperature sensor should be calibrated through the application program according to the external power supply connected. Moreover, to avoid fluctuations in the temperature measurement, the flush-mounted box must be completely sealed once the cables are inside. Airtight boxes, polyurethane foam, silicone rubber or similar non-breathable construction materials can be used.		
	Accuracy		1 minute in display / 1 second in KNX bus		
	Precision		30ppm		
	Power supply		CR1225 3V battery		
Clock	Data/time Set		Manual (set from screen) or auto (through KNX clock telegrams in bus)		
	Response on power failure (bus or external power supply)		It does not affect to internal clock		
	Response on power re	covery	The internal error shows current time		
EXTERNAL PO	OWER SUPPLY AND	PORTS SPEC	CIFICATIONS AND CONNECTIONS		
Power supply voltage					
		Pluggable scre	w terminal block		
			C) / 22-12AWG (UL)		
USB Connector Mini USB type A 150mA. Please refer to th The information		Mini USB type 150mA. Please refer to The information	A connector. Version 2.0. Do not connect to PC, hard drives or other devices with consumption higher than the user manuals at <u>www.zennio.com</u> for details on how to upgrade the firmware through this port. In about the underlying software licenses can be downloaded through the USB port by connecting a flash containing an empty folder named Z41_LICENSE (please ensure that the firmware version is 3.4.3 or greater).		

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			
Switching type	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 (extensible 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.

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

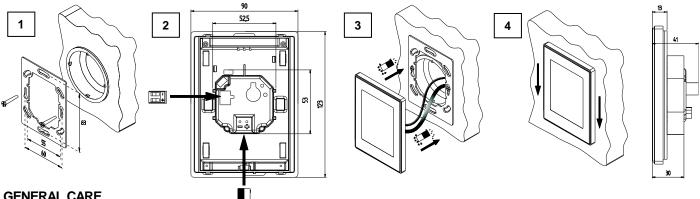
Any combination of the next **accessories** is allowed in the inputs:



INSTALLATION INSTRUCTIONS

- Place the metallic piece into a square or rounded standard mounting box with screws. 1.
- 2. Connect the KNX bus and the inputs at the rear of Z41 Lite, as well as the external power.
- 3. Once it is connected, fit Z41 Lite in the metal platform. The device is fixed through the magnets.
- Slid Z41 Lite downwards to fix it with the security anchorage system. Check, from the side, that nothing unless Z41 Lite outline can be 4. seen (the metal platform should be completely hidden by Z41 Lite).
- In case of landscape configuration, please follow the steps considering a 90° counter-clockwise rotation. 5

To uninstall proceed in the reverse way.



GENERAL CARE

- Do not use aerosol sprays, solvents, or abrasives that might damage the device.
- Clean the product with a clean, soft, damp cloth.

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 https://www.zennio.com/en/legal/weee-regulation.