

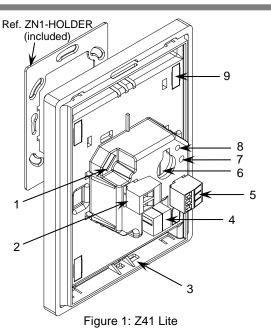
ZVI-Z41LIT

TECHNICAL DOCUMENTATION

Z41 Lite

FEATURES

- 4.1" capacitive color touch panel (320x240 pixels)
- Available in the following colors: silver (RAL 9006), anthracite black (RAL 9004), white (RAL 9016) and gloss white (RAL 9003)
- 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 12-29 VDC power supply
- Integrated KNX BCU (TP1-256)
- Mini-USB connection
- Magnetic fit
- Complete data saving in case of KNX bus failure
- Conformity with the CE, UKCA, RCM directives (marks on the back side)



1. Mini-USB connector	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				
Type of device		Electric operation control device	Electric operation control device			
	Voltage (typic	al)	29 VDC SELV	29 VDC SELV		
	Voltage range	1	21-31 VDC	21-31 VDC		
	Maximum	Voltage	mA	mW		
KNX supply	consumption	29 VDC (typical)	6	174		
	consumption	24 VDC ¹	10	240		
	Connection ty	ре		Typical TP1 bus connector for 0.8 mm Ø rigid cable		
External power supply		86 mA (29 VDC). Do not conr supply	12-29 VDC. Maximum consumption: 250 mA (12 VDC), 112 mA (24 VDC), 86 mA (29 VDC). Do not connect 29 VDC KNX bus as external power supply			
Operation ten	nperature		5 +45 °C	5 +45 °C		
Storage temp	erature		-20 +55 °C	-20 +55 °C		
Operation hu	Operation humidity		595%	5 95%		
Storage humi	Storage humidity		5 95%	595%		
Complementa	Complementary characteristics		Class B	Class B		
Protection cla	ISS					
Operation typ	Operation type		Continuous operation	Continuous operation		
	Device action type		Type 1	Type 1		
Electrical stress period		Long	Long			
Degree of protection		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 measurements.				
Response on	Response on KNX bus failure		Data saving according to param	Data saving according to parameterization. Initialization screen.		
	Response on KNX bus restart			Data recovery according to parameterization		
Response on power supply failure			Complete data saving. Display is switched off			
Response on power supply recovery		Current data recovery				
Operation indicator		Several on display as program	Several on display as programmed			
Accessories			Mini USB A-B cable Ref. ZN1AC-UPUSB (not included)			
Weight		229 g (Al) / 221 g (PC)	229 g (Al) / 221 g (PC)			
Housing mate	Housing material		PC+ABS FR V0 halogen free			
Maximum consumption in the worst case scenario (KNX Fan In me			9			

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

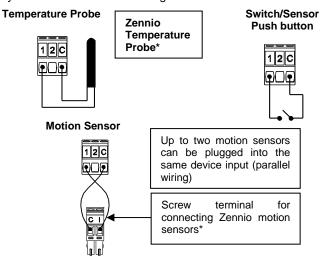
CONCEPT			DESCRIPTION
Temp. Probe	Measuring range		-10 50 °C
	NTC accuracy (@ 25 °C)		±0.5 °C
	Temperature resolution	•	0.1 °C
	Calibration		The temperature sensor should be calibrated through the application program according to the external power supply connected. Moreover, to avoid fluctuations in 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		30 ppm
	Power supply		CR1225 3 V 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 recovery		The internal error shows current time
EXTERNAL P	OWER SUPPLY AND	PORTS SPE	CIFICATIONS AND CONNECTIONS
CONCEPT D		DESCRIPTI	ON
Power supply voltage 12-29 VDC		12-29 VDC	
		Pluggable scre	w terminal block (0.4 Nm max.)
		0.2-2.5 mm ² (I	EC) / 22-12 AWG (UL)
USB Connector Please re		150 mA. Please refer to	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

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		
Switching type	common		
Connection method	Pluggable screw terminal block (0.2 Nm		
	max.)		
Cable cross-section	0.2-1.5 mm ² (IEC) / 28-14 AWG (UL)		
Maximum cable length	30 m		
NTC accuracy (@ 25 °C) ²	±0.5 °C		
Temperature resolution	0.1 °C		
Maximum response time	10 ms		

² For Zennio temperature probes.

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

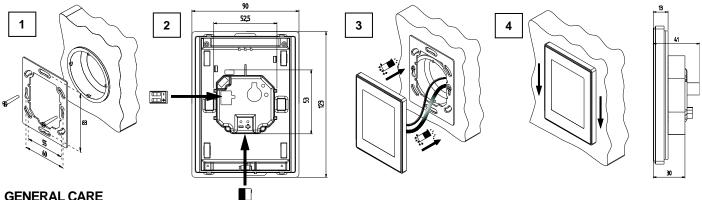
Any combination of the following accessories is allowed:



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 AND ADDITIONAL NOTES

• 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.