

FEATURES

- KNXnet/IP tunnelling protocol (up to 10 connections)
- Maximal APDU length of 254 bytes
- NTP clock functionality
- KNX Data Secure supported and KNX IP Secure
- Remote control with Zennio Remote
- Compatibility with ZenVoice through license
- External 24-29 VDC power supply
- Ethernet connection RJ45 10/100Mbps Base T
- 10 logic functions
- Total data saving on KNX bus failure
- Integrated KNX BCU (TP1-256)
- Dimensions 67 x 90 x 36 mm (2 DIN units)
- DIN rail mounting according to IEC 60715 TH35, with fixing clamp
- Conformity with the CE, RCM directives (marks on the right side)

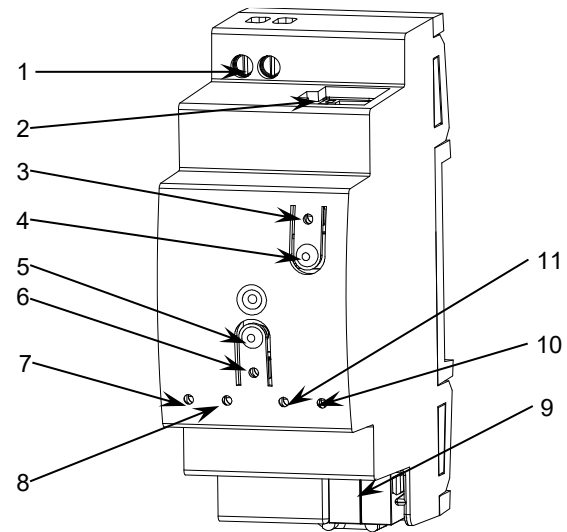


Figure 1: ZennioT

1. External Power Supply	2. Ethernet connector	3. Multifunction reset LED	4. Multifunction reset button
5. Programming button	6. Programming LED	7. KNX connection LED	8. IP connection LED
9. KNX connector	10. Synchronization LED	11. Server connection status LED	

Programming button: short press to set programming mode. If this button is held while powering the device with the external power supply, it enters the safe mode (associated LED flash red). In order to perform a KNX Secure factory reset, while the device is in safe mode, press the button for 10 seconds until the programming LED changes its state. Multifunction Reset button: short press to perform a webtools password reset (associated LED flash yellow).

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 external power supply failure) and if the device is not in safe mode, it emits a red flash.

KNX connection LED: shows that the device is powered through the KNX bus (green color) or is not powered through the KNX bus (red color).

IP connection LED: shows that the device is connected to Ethernet and has an IP address assigned (green) or is not connected/hasn't an IP address assigned (red).

Synchronization LED: shows that the device is unloaded or desynchronized (red); synchronizing (yellow flashing); synchronized (green).

Server connection status LED: shows a correct connection with the server (green); connection with failures (yellow); without connection (red).

GENERAL SPECIFICATIONS

CONCEPT		DESCRIPTION		
Type of device		Electric operation control device		
KNX supply	Voltage (typical)	29 VDC SELV		
	Voltage range	21-31 VDC		
	Maximum consumption	Voltage	mA	mW
		29 VDC (typical)	2.6	75.4
24 VDC ¹	10	240		
Connection type		Typical TP1 bus connector for 0.8 mm Ø rigid cable		
External power supply		24-29 VDC. Maximum consumption: 47 mA (24 VDC) - 40 mA (29 VDC)		
Operation temperature		0 .. +55 °C		
Storage temperature		-20 .. +55 °C		
Operation humidity		5 .. 95%		
Storage humidity		5 .. 95%		
Complementary characteristics		Class B		
Protection class		III		
Operation type		Continuous operation		
Device action type		Type 1		
Electrical stress period		Long		
Degree of protection		IP20, clean environment		
Installation		Independent device to be mounted inside electrical panels with DIN rail (IEC 60715)		
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). The synchronization LED shows that the device is unloaded or desynchronized (red); synchronizing (yellow flashing); synchronized (green). The IP connection LED shows that the device is connected to Ethernet and has an IP address assigned (green) or not (red). The server connection status LED shows a correct connection with the server (green); connection with fails (yellow) or without connection (red). In case of firmware update, along the process all the LEDs will blink in red with the exception of the programming LED.		
Weight		91 g		
Housing material		PC FR V0 halogen free / 75 °C (housing) - 125 °C (connectors)		

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

EXTERNAL POWER SUPPLY AND CONNECTIONS	
CONCEPT	DESCRIPTION
Voltage	24-29 VDC
Current	47 mA (24 VDC) - 40 mA (29 VDC)
Connection method	Screw terminal block (0.5 Nm max.)
Cable cross-section	0.5-2.5 mm ² (IEC) / 26-12 AWG (UL)

PAIRING INSTRUCTIONS

- Local discovery pairing: The device is selected in the Zennio Remote APP and the pairing password (from the sticker or a customized one if parameterized) is entered.
- From Webserver tools: Access the remote control tab, click on "New pairing" and the pairing code with a QR will appear.
- Pairing through object: A 1-bit object is sent to generate a request for a pairing code and a text string is received with the code or an error message if pairing is not possible.

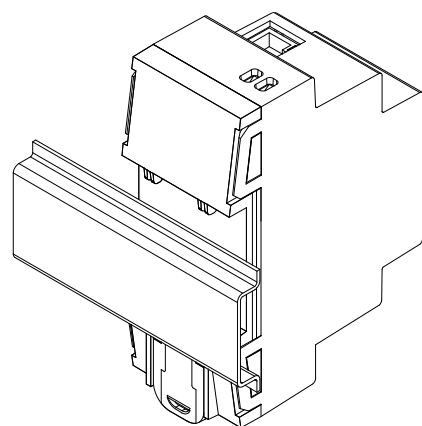
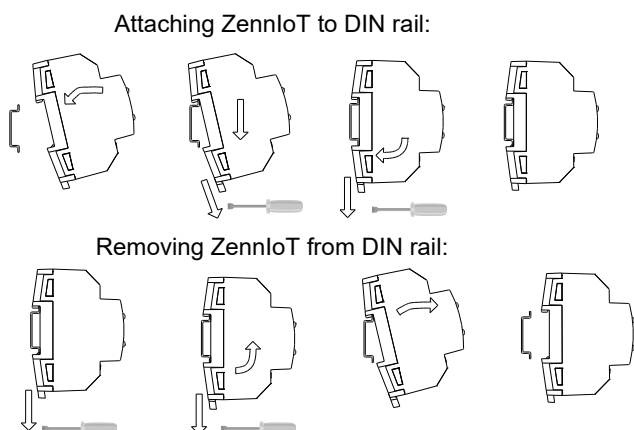



Figure 2: Mounting ZennloT on DIN rail

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