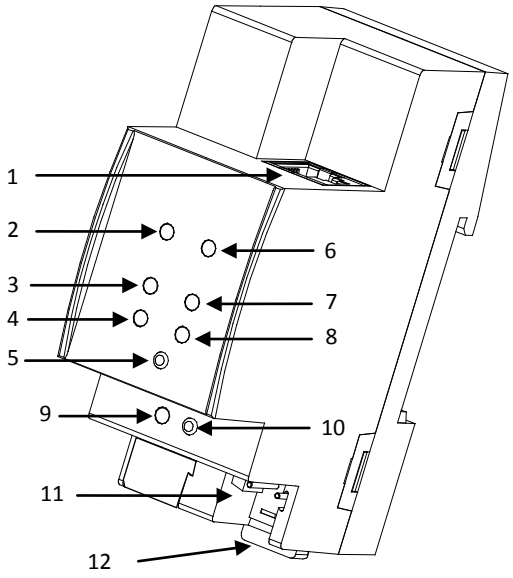
Zennio KNX-IP Router PLess

KNX-IP router without auxiliary power supply
ZSY-IPR-PL

Technical Documentation

FEATURES

- KNXnet/IP tunneling protocol (up to 4 simultaneous connections).
- KNXnet/IP routing protocol.
- Support of long messages (max. 240 byte APDU length)
- Neither auxiliary power nor PoE is needed.
- Load bus diagram from last hour.
- Manual function enable/disable button.
- Ethernet 10/100 BaseT IP (Fast Ethernet).
- Parameterizable filtering for addresses 14/X/X and onwards.
- Dimensions: 93 x 70 x 35mm (2 DIN units).
- DIN rail mounting (EN 50022), through pressure.
- Integrated KNX BCU.
- Conformity with the CE directives.



1-RJ45 socket	**2**-Ethernet line LED	**3**-Ethernet line traffic LED	**4**- Group address LED
5-Manual function button	**6**-KNX line LED	**7**-KNX line traffic LED	**8**-Physical address LED
9-Programming LED	**10**-Programming button	**11**-KNX line connector	**12**-DIN rail clamping part

Figure 1. KNX-IP Router PLess

GENERAL SPECIFICATIONS				
CONCEPT			**DESCRIPTION**	
Type of device			Electric operation control device	
KNX supply	Voltage (typical)		29VDC SELV	
	Voltage range		21… 30VDC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	29.2 (36.5 with heavy traffic)	847 (1059)
		24VDC	29 (36.6 with heavy traffic)	696 (878)
	Connection type		Typical bus connector TP1; 0.80 mm² section	
External power supply			Not required (neither external power supply nor PoE)	
Operation temperature			-5ºC to +45ºC	
Storage temperature			-20ºC to +60ºC	
Operation humidity			5% to 93% RH (no condensation)	
Storage humidity			5% to 93% RH (no condensation)	
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 (EN 50022).	
Status LED	Ethernet line		Green (Ethernet line OK), red (manual overwrite active), OFF (error)	
	KNX line		Green (KNX line OK), OFF (error or not connected)	
	Ethernet line traffic		Blinking: green (traffic on Ethernet line), red (error), OFF (no traffic)	
	KNX line traffic		Blinking: green (traffic on KNX line), red (error), OFF (no traffic)	
	Group address (GA)		OFF (different configuration on Ethernet and KNX lines), green (filter table active), green and red (route all), red (block)	
	Physical address (PA)		OFF (different configuration on Ethernet and KNX lines), green (filter table active), green and yellow (route all), yellow (block)	
	Programming LED		OFF (normal), red (programming mode), flashing red (Ethernet cable not connected)	
Weight			75g	
IP Connection	Ethernet connector		RJ45	
	IP communication		Ethernet 10/100 BaseT (up to 100Mbit/s)	
Housing material			Plastic PA66, grey	

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 and Ethernet. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water 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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