

Features

- Reduced size: 90 x 60 x 35 mm (2 DIN rail units).
- KNX system power supply with additional 29VDC output.
- ZPS160M power supply generates and monitors the KNX system voltage supply.
- Maximum bus KNX current: 160mA.
- KNX coil included.
- Maximum additional output current: 250mA - I_{BUS} .
- No device needed when wiring the clamp.
- DIN rail mounting (EN 50022), through pressure.
- Short-circuit and overload protection.
- Conformity with the CE directives (CE mark on the right side).

1. Main power clamp	2. Green LED	3. KNX bus connector	4. Additional output clamp	5. DIN rail
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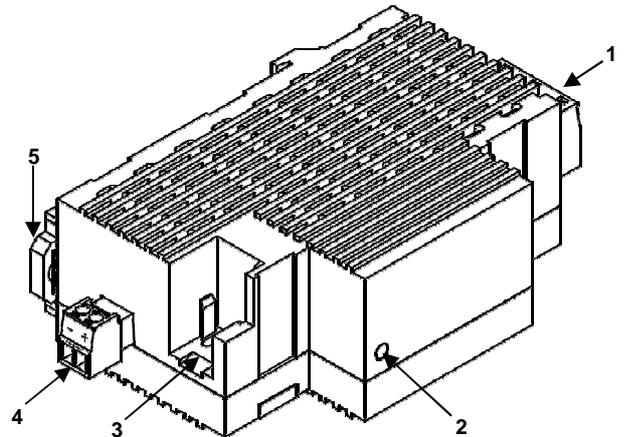


Figure 1: ZPS160MPA power supply

Installation and connection

- This KNX power supply must be exclusively installed in a 35mm DIN rail in a distribution box or an electrical panel.
- Ensure adequate ventilation to prevent the range of permissible temperature of the device is not exceeded.
- Main power must be connected to L, N and ground terminals, in accordance with the schematic represented in figure 2.
- The coil integrated KNX output must be connected through a standard KNX connector as shown in the figure 2.
- The additional output connection must be connected according to the polarity indicated on the clamp.

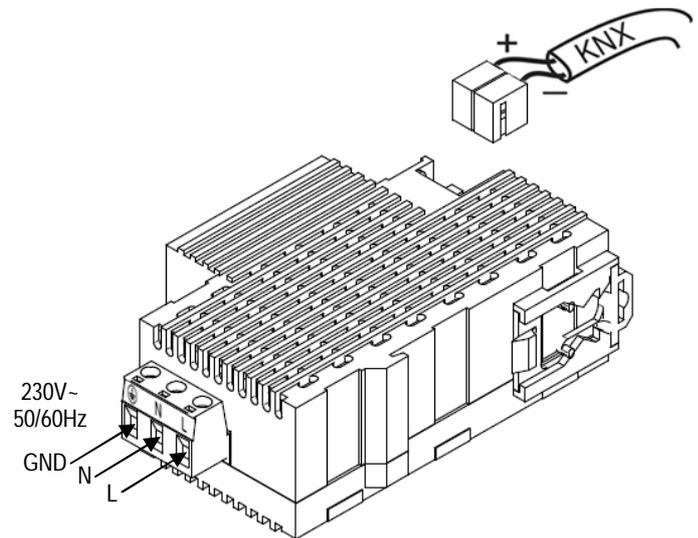


Figure 2: ZPS160MPA installation and connection

Controls and indicators

Green LED indicates the status of the device :

- LED ON: the device is working properly.
- LED OFF:
 - Short-circuit on the bus output or additional output. Eliminate the short-circuit.
 - AC power failure. Check the AC power supply.
 - Bus or additional output line overload*.
- A LED blinking every few seconds implies a slight BUS or additional output line overload*.

*Reduce the load on the BUS or the additional output line until its total consumption does not exceed the maximum current specified.

Note: To “reset” the bus line, pull out the KNX connector from the power supply for at least 20 seconds.

GENERAL SYSTEM SPECIFICATIONS		
CONCEPT		DESCRIPTION
Device type		Electric operating control device
External power supply	Voltage	230 VAC, 50/60 Hz
	Consumption	Max. 100mA
KNX output	Voltage	29 VDC SELV
	Output (I _{BUS})	Max. 160mA
Additional output	Voltage	29 VDC SELV
	Output (I _{AUX})	I _{AUX} + I _{BUS} ≤ 250mA
Operation temperature		from -5°C to +45°C
Storage temperature		from -20°C to +55°C
Operation humidity		from 30 to 85% RH (no condensation)
Storage humidity		from 30 to 85% RH (no condensation)
Complementary characteristics		Class B
Protection class		Class I
Operation type		Continuous operation
Device Action type		Type 1
Electrical stress period		Long
Installation		Independent to be mounted inside distribution boxes or electrical panels.
Minimum clearances		---
Power failure back-up time		200ms
Max current before overload		350mA
Protection fuse	Voltage	250V AC ~ 50 Hz
	Current	2.5 A
	Response	Type F (fast response)
Connection type		Three screw terminals clamp
Cable section		from 0.5mm ² to 2.5mm ²
Cable type		Flexible cable with crimping terminals or rigid cable without terminals
Operation indicator		Green LED ON implies a correct bus voltage
Weight		200g
PCB CTI index		175V
Housing material		PC+ABS FR V0 Halogen free

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.
- The facility must be equipped with a device that ensures the omnipolar sectioning. Installation of a 10A mini-circuit-breaker is recommended. To prevent accidents, it must remain open in case of manipulation of the device.
- The device has a short-circuit protection fuse that, in case of activation, should only be rearmed or replaced by the Zennio technical service.
- 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>.