

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 unit assembly (EN 50022), with snap fit clamp.
- Short-circuit and overload protection.
- CE directive compliance.

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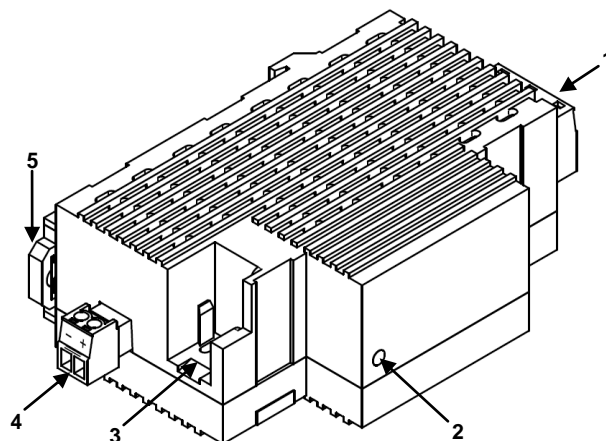


Figure 1: ZPS160MPA power supply

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 in the clamp.

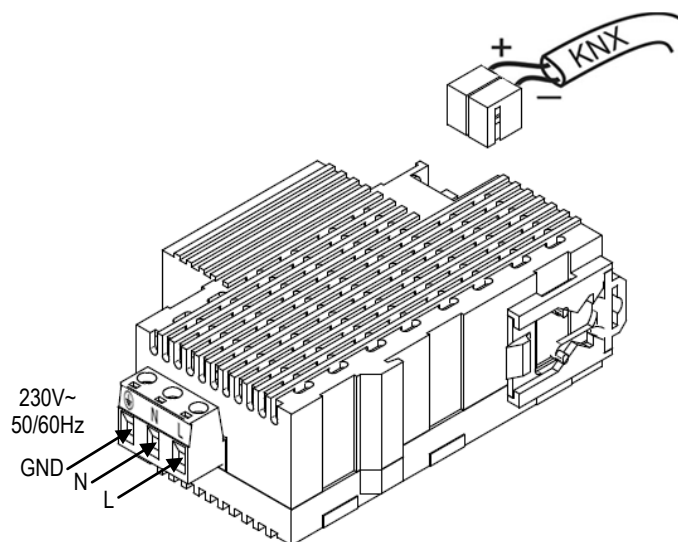


Figure 2: ZPS160MPA installation and connection

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
Ambient temperature		from -5°C to +45°C
Storage/Transport temperature		from -20°C to +55°C
Ambient humidity (relative)		from 30 to 85% RH (no condensation)
Storage humidity (relative)		from 30 to 85% RH (no condensation)
Complementary characteristics		Class B
Safety class		Class I
Operation type		Continuous operation
Device Action type		Type 1
Electrical solicitations period		Long
Assembly		Independent control assembly device 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 0.25 mm ² to 2.5 mm ²
Cable type		Flexible cable with crimping terminals or rigid cable without terminals
Operation indicator		Green LED ON implies a correct bus voltage
Weight		200 gr.
PCB CTI index		175 V
Enclosure		PC+ABS FR V0 Halogen free



Safety instructions

- The installation must be equipped with a device which ensures the omni-polar sectioning. It is recommended to install a 10A magneto-thermal switch.
- Do not connect the main voltage (230V) or any other external voltages at any point of the bus. Connecting an external voltage may endanger the security of the entire KNX system.
- Do not connect the main voltage (230V) or any other external voltages to the additional output terminal.
- Flexible cable with crimping terminals or rigid cable without terminals must be used for output connection.
- Ensure there is enough insulation between the AC voltage cables and the bus (or their extensions) ones.
- Caution! Once the device is installed, it shouldn't be accessible.
- Electrical equipment must be installed and adjusted only by qualified personnel following applicable regulations required by law for preventing accidents.
- To prevent electrical accidents, disconnect the main power before working with the device. **Use the magneto-thermal cut off switch.**
- Ignoring the installation instructions may cause fire, electrical shock or injury to persons.