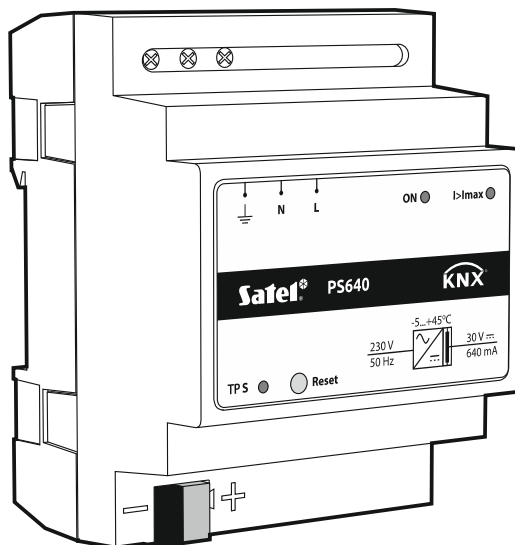


Satel®

KNX-PS640

KNX Power Supply



Installation Guide

knx-ps640_en 11/19

SATEL sp. z o.o. • ul. Budowlanych 66 • 80-298 Gdańsk • POLAND
tel. +48 58 320 94 00
www.satel.eu

IMPORTANT

The device should be installed by qualified personnel.

Prior to installation, please read carefully this manual.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

SATEL's goal is to continually upgrade the quality of its products, which may result in some changes of their technical specifications and firmware. The current information on the introduced modifications is available on our website.

Please visit us:
<http://www.satel.eu>

The declaration of conformity may be consulted at www.satel.eu/ce

The following symbols may be used in this manual:



- note,



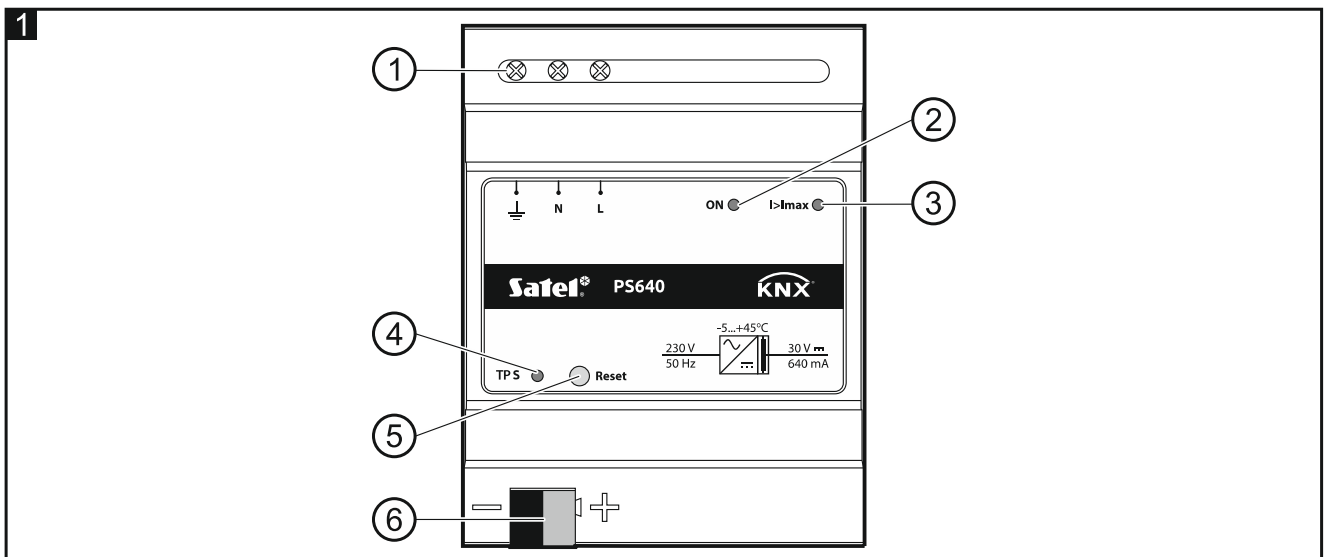
- caution.

The KNX-PS640 power supply unit enables the KNX bus to be supplied with system voltage (SELV). The output with integrated choke makes it possible to separate the power supply from the KNX bus communication line.

1. Features

- Wide input voltage range: 195...265 V AC (50/60 Hz).
- Output voltage for the bus: 28...30 V DC.
- Short-circuit protection for AC power input.
- Short-circuit and overload protection for DC power output.
- LED indicators of power supply operating status.
- Installation in electrical cabinets, on DIN rail (35 mm).

2. Description



- ① 230 V AC mains connection terminals (\perp – terminal for connecting the protective conductor, N – terminal for connecting the neutral conductor, L – terminal for connecting the phase conductor).
- ② green LED indicating the current AC supply status – ON when the AC supply is available (correct operation of the power supply).
- ③ red LED indicating overload – comes on when the output current is equal to or higher than 0.9 A.



Overload on the output can be signaled if too many devices are connected to the powered KNX bus line. Reduce the number of connected devices and check if the LED goes out.

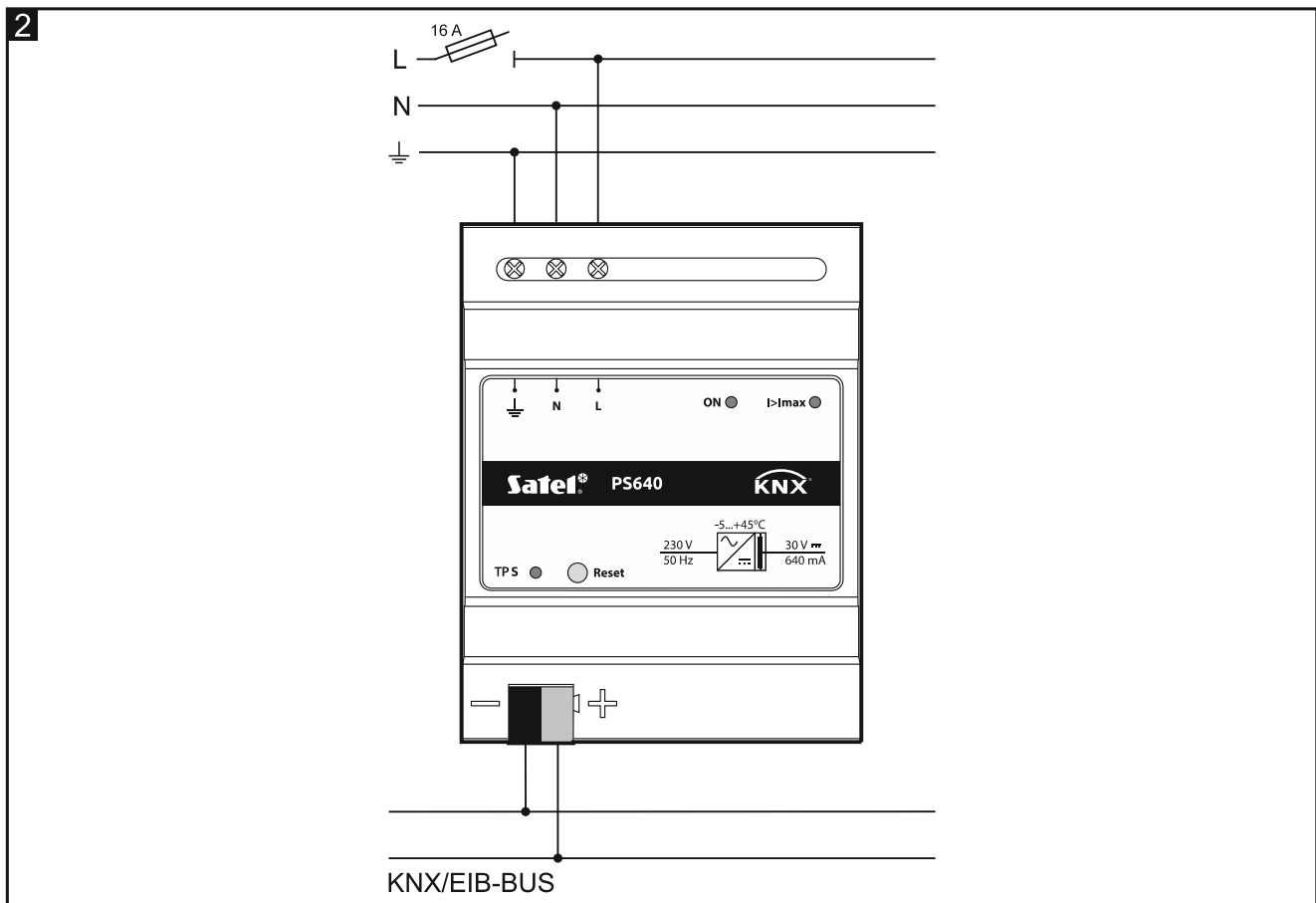
- ④ red LED indicating restart of the KNX – comes on when the “Reset” button is pressed.
- ⑤ the “Reset” button allows you to restart the KNX bus. Press and hold down the button for about 30 seconds to restart devices connected to the bus.



Pressing the “Reset” button restarts the power supply and the KNX bus. During the restart, the bus line is deenergized and the power supply output shorted. All devices connected to the bus line will be restarted.

⑥ terminal for connecting the KNX bus.

3. Connection diagram



4. Installation



Disconnect power before making any electrical connections.

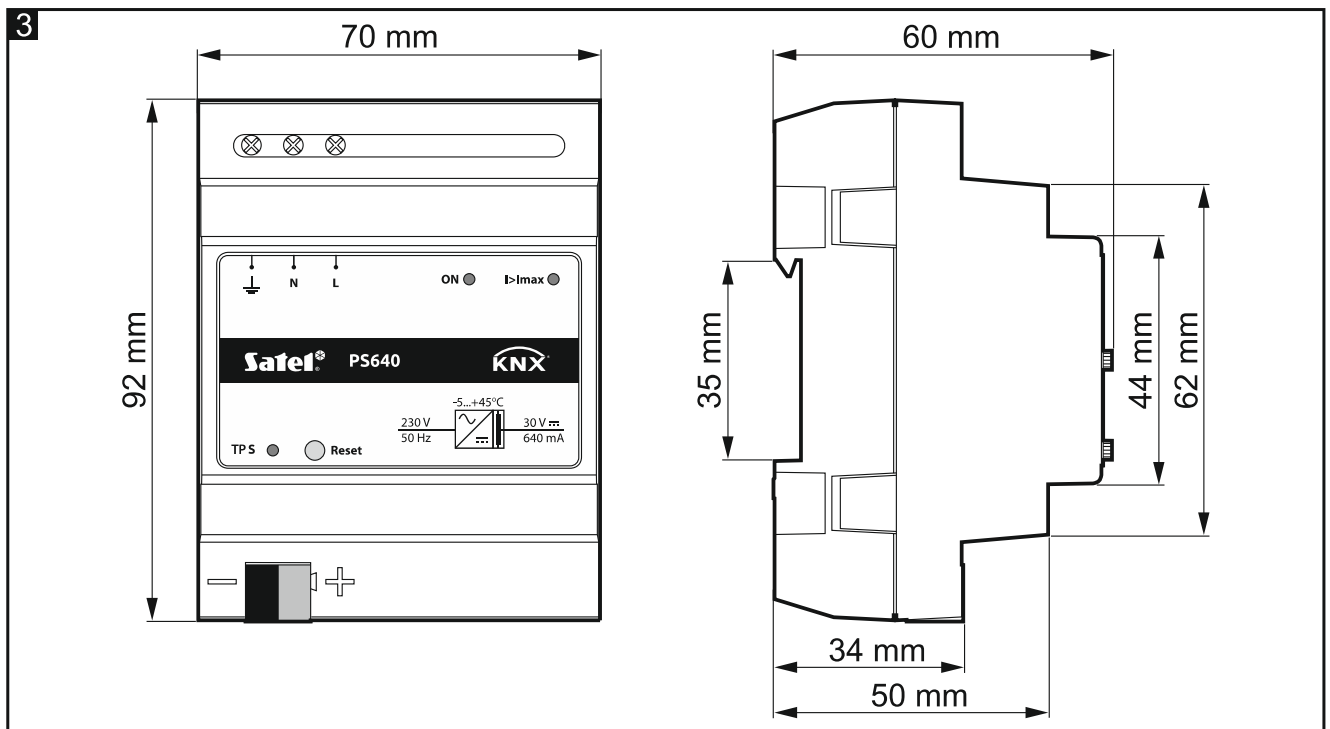
The power supply unit should be installed indoors, in spaces with a normal air humidity, e.g. in electrical rooms, on a DIN rail (35 mm).

1. Install the power supply on the mounting rail.
2. Use the connection terminal to connect the KNX bus cable to the power supply.
3. Connect the 230 V AC supply voltage to the connecting terminals as indicated on the enclosure.



All connections should be made according to the diagram shown in the "Connection diagram" section.

5. Enclosure



6. Specifications

Power supply

Supply voltage 195...265 V AC (50/60 Hz)

Maximum power consumption 1.5 W

Power output

Rated output voltage 30 V, 28...30 V SELV

Output current 640 mA

Overload threshold 900 mA

Short-circuit current 1.3 A

Power failure buffering time 200 ms

Connections

Maximum wire cross-section 2.5 mm²

Maximum tightening torque 0.5 Nm

Other parameters

Operating temperature range -5°C...+45°C

Storage/transport temperature range -25°C...+70°C

IP code IP20

Number of units on DIN rail 4

Enclosure dimensions 70 x 92 x 60 mm

Weight 130 g



Exceeding the limits of the module operating parameters may cause damage to the device and pose a threat to health or life.