

640 mA power supply for KNX bus **KNX Power Supply 640**

Operation manual



(Art. # 19417502)

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1 Application

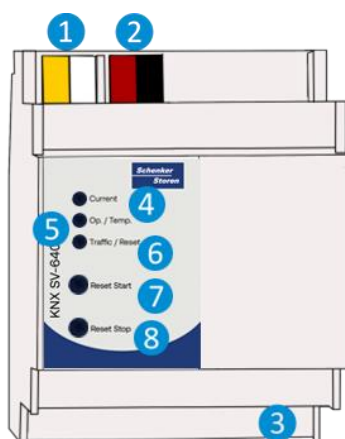
The KNX Power supply 640 is a 640 mA bus power supply with high efficiency and small footprint of only 4 modules (72 mm). The device has an integrated bus choke and also provides an output for auxiliary voltage.

Three multicolor LEDs on the front indicate the condition of the device. They signal overload with warning, exceeding temperature and telegram traffic and the reset status.

The two buttons enable the KNX line to be reset.

2 Installation and commissioning

The KNX PS 365 is mounted on a DIN rail and has a space requirement of 4 modules. It has the following controls (7 8) and displays (4 5 6):



- ① Aux. Power Out 30 V DC
- ② KNX Bus Out
- ③ Power in 230 V AC
- ④ LED „Current“
- ⑤ LED „Temp.“
(Temperature)
- ⑥ LED “Traffic/Reset”
- ⑦ Button Reset Start
- ⑧ Button Reset Stop

2.1 Mains connection

When connecting the mains voltage, the protective conductor (PE) must be connected, as it is used to equalize the potential of the bus voltage.

2.2 Output bus voltage (KNX)

The bus voltage is used to supply KNX devices for the medium twisted pair. The integrated bus choke separates the DC supply voltage from the bus signals

2.3 Output auxiliary voltage (30 V)

This output is used to supply additional equipment. The output is galvanically connected to the bus voltage, but is not at the same potential. This means that "minus" bus and "minus" of the auxiliary voltage are not the same and must not be connected to each other. If required, the auxiliary voltage can be routed to the load via the second wire pair (yellow / white) of the KNX cable.

All data on the output current relate, unless otherwise stated, to the sum of the currents of bus voltage and auxiliary voltage

3 Settings

The device requires no settings and does not occupy any KNX addresses.

4 Display of the status LED 4 5 6

LED „Current“ output	Meaning
LED lights green	The device operates in normal operating mode. Sum of the output currents < 600 mA
LED lights yellow	The device operates in normal operating mode. Sum of the output currents 600 mA < I < 640 mA
LED lights red	overcurrent Sum of the output currents I > 640 mA
LED flashes red	Critical overcurrent Sum of the output currents I > 900 mA

LED „Temp.“ temperature	Meaning
LED lights green	The device operates in normal operating mode. Temperature in the housing < 60 ° C
LED lights yellow	The device operates in normal operating mode. Temperature in housing > 60 ° C and < 75 ° C
LED lights red	Overtemperature Temperature in the housing > 75 ° C
LED flashes red	Critical overtemperature
LED off	If the temperature increases further, the unit switches off for safety reasons. In this case, a display on the device is no longer possible. To restart, the unit must cool down and be disconnected from the mains for a short time (about 10 s).

LED „Traffic/ Reset“	Meaning
LED lights green	No telegram traffic
LED flickers green	Telegram traffic with bus load < 70%
LED flickers yellow	Telegram traffic with bus load > 70%
LED lights red	Reset active Can be stopped manually or automatically.

5 Control buttons 7 8

Pressing the "Reset Start" button triggers a bus reset, meaning the bus voltage will be interrupted. The reset state is automatically terminated after 30 s and the bus voltage is switched on again. The reset status can be extended by pressing the "Reset Start" key again (Retrigger) or terminated manually by pressing the "Reset Stop" key.

During reset, the "Traffic / Reset" LED lights up red.

6 Warning



WARNING

- The device may only be installed and commissioned by an authorized electrician.
- The applicable safety and accident contraception regulations must be observed.
- The device must not be opened.
- When planning and installing electrical systems, the relevant directives, regulations and regulations of the respective country must be observed.
- This device is permanently connected, so an easily accessible disconnecting device must be installed outside the device.
- The connector requires a 13A fuse for external overcurrent protection.
- The performance data are located on the side of the product.

Weitere Informationen



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