

KNX POWER SUPPLY UNIT 320 mA
KNX POWER SUPPLY UNIT 640 mA

Safety instructions



Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. During installation and cable routing, comply with the regulations and standards which apply for SELV circuits.

These instructions are an integral part of the product, and must remain with the end customer.

Device components

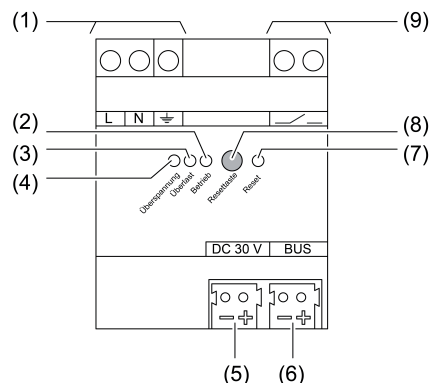


Figure 1: View

- (1) Connection of mains
- (2) LED **Betrieb**, green
On: Normal operation
Flashes: Overload or overvoltage
Off: No mains voltage or internal error
- (3) LED **Überlast**, red
On: Overload or short-circuit on KNX bus line or output **DC 30 V**
- (4) LED **Überspannung**, yellow
On: Overvoltage on KNX bus line or output **DC 30 V**
- (5) Output **DC 30 V**
- (6) Output **Bus** for KNX bus line
- (7) LED **Reset**, red
Flashes rapidly 2.5 Hz: Reset for 20 seconds
Flashes slowly 0.25 Hz: Permanent reset
- (8) Button **Reset**
Acknowledge the diagnostic message: Press briefly, < 0.5 seconds
Switch off the KNX bus line for 20 seconds: Press between 2..4 seconds
Permanently switch off the KNX bus line: Press longer than 4 seconds
Terminate the permanent reset: Press the button

- (9) Signal contact for diagnostic message
Closed: Normal operation
Open: After overload, overvoltage or in case of a power failure

Intended use

- Supplying KNX devices with bus voltage
- Supplying devices with direct current
- Mounting on DIN rail according to EN 60715 in distribution boxes
- i The detailed instructions and the technical documentation on our website contain detailed information.

Information for electrically skilled persons



Mortal danger of electric shock.
Disconnect the device. Cover up live parts.

Fitting the device

Observe the temperature range. Ensure sufficient cooling.

- o Mount the device on DIN rail. The terminals for the mains connection (1) must be at the top.

Connecting the device to mains voltage and bus

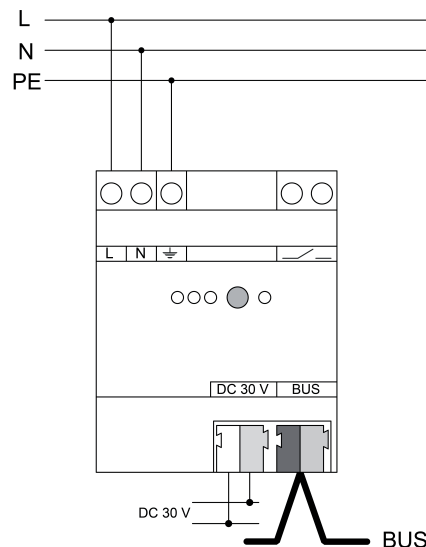


Figure 2: Wiring example – mains voltage and bus line

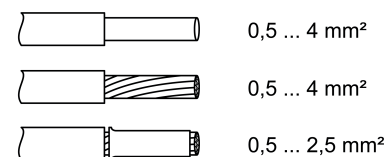


Figure 3: Clampable conductor cross-section

- o Connect the mains voltage to the terminals **L** and **N** (1).
- o Connect the protective conductor **PE** to the terminal \perp .
- o Connect the KNX bus line to output **Bus** (6).
- o Install the cover to protect the bus connection against hazardous voltages in the connection area.
- i The total load of the outputs can be subdivided as desired. Do not exceed the total rated current.
- i Do not connect any other products to the bus output. This might influence the bus communication.
- i If required, an identical power supply can be connected in parallel for the device variants 320 mA and 640 mA.

Connecting the diagnostic analyser

The power supply signals mains failure, overvoltage, overload and short circuit using a potential-free contact (9). A monitoring device can detect the switching status and forward it for diagnostic purposes.

- i The signal output serves only for signalling purposes and may not be used as a load output.

A signal lamp, a signal relay or, e.g., a KNX binary input connected to a KNX bus line can be used as monitoring device.

- o Connect the signalling device according to the connection example (figure 4).

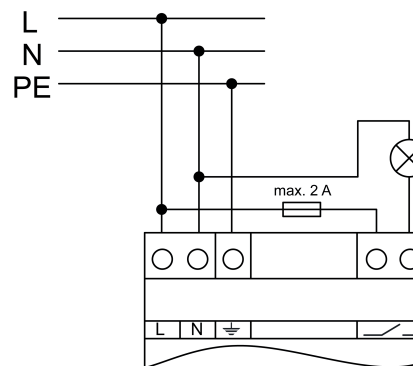


Figure 4: Application example – signal lamp for optical operating display

- o Connect the KNX binary input according to the connection example (figure 5).



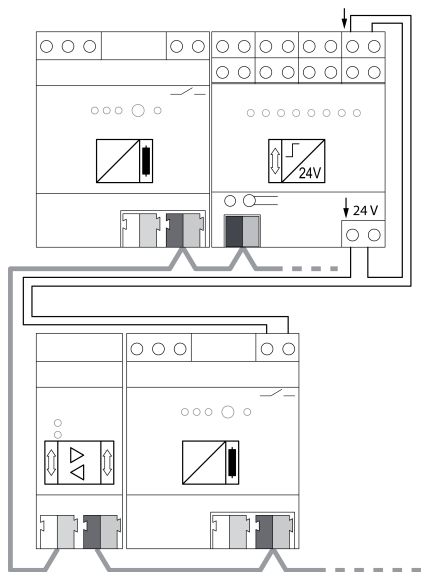
KNX POWER SUPPLY UNIT 320 mA
 Art. No. WRKT20145NC
KNX POWER SUPPLY UNIT 640 mA
 Art. No. WRKT20275NC

Operating instructions



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HOTLINE
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Relative humidity max. 93 % (No moisture condensation)
 Fitting width 72 mm / 4 modules
 Connection mode Screw terminal
 Finely stranded with conductor sleeve 0.5 ... 2.5 mm²

Warranty

The warranty follows about the specialty store in between the legal framework as provided for by law.

Figure 5: Application example – KNX binary input on main line for detecting and centrally signalling diagnostic messages

- i Observe the wiring! Install the cables for the signal contact such that no loops are created. During operation loops can cause interference voltages to be coupled into.

Technical data

Rated voltage AC	AC 230 V ~ (± 10%)
Mains frequency	50 / 60 Hz
Power dissipation (max. load on all outputs)	
Order No. WRKT20145NC	max. 1.8 W
Order No. WRKT20275NC	max. 2.9 W
Efficiency	
Order No. WRKT20145NC	approx. 84 %
Order No. WRKT20275NC	approx. 87 %
Rated voltage DC	DC 240 ... 250 V
KNX	
KNX medium	TP 256
Bus output voltage	DC 28 ... 31 V SELV
Output current	
Order No. WRKT20145NC	320 mA (all outputs)
Order No. WRKT20275NC	640 mA (all outputs)
Short-circuit current	
Order No. WRKT20145NC	max. 1 A
Order No. WRKT20275NC	max. 1.5 A
Connection type for bus	Device connection terminal
Parallel operation with identical power supply	Yes
Output DC 30 V	
Output voltage	DC 30 V
Signal output	
Switching voltage AC	AC 12 ... 230 V~
Switching voltage DC	DC 2 ... 30 V
Switching current	5 mA ... 2 A
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-25 ... +75 °C