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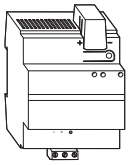
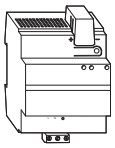
Schneider Electric

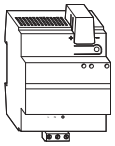
SpaceLogic KNX power supply REG-K

Operating instructions

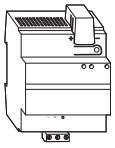




SpaceLogic KNX power supply REG-K/160 mA
Art. no. MTN684016



SpaceLogic KNX power supply REG-K/320 mA
Art. no. MTN684032



SpaceLogic KNX power supply REG-K/640 mA
Art. no. MTN684064

For your safety

⚠⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables
- Connecting and establishing KNX networks
- Safety standards, local wiring rules and regulations

Failure to follow these instructions will result in death or serious injury.

⚠ CAUTION

The device may be damaged!
All devices that are mounted next to the power supply unit must at least be equipped with basic insulation!

Failure to follow these instruction can result in equipment damage.

Getting to know the power supply

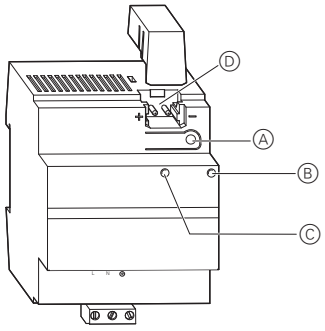
The KNX power supply REG-K (referred to below as the **Power supply**) provides bus line devices with power. At least one power supply is required per bus line. The integrated choke isolates the data telegram from the power supply.

The power supply provides a stabilised safety extra-low voltage (SELV) of DC 30 V. It is short-circuit-proof, and features a voltage and current limiter. Excessively high output currents are indicated by a red LED (I>Imax).

The bus devices on the connected line can be reset using the reset key on the power supply. This status displayed via the red reset LED. The green LED (RUN) indicates that the power supply is ready for operation.

The max. cable length between the power supply and the furthest bus device is 350 m. The power supply is intended for installation on the DIN rail TH 35 according to EN 60715. A data rail is not required.

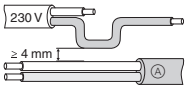
Connections, displays and operating elements



Ⓐ Reset key with integrated reset LED
Ⓑ Green LED: Operating display (RUN)
Ⓒ Red LED: Overcurrent display (I>Imax)
Ⓓ Bus connection (with cover)

Installing and connecting the power supply unit

WARNING
Risk of death from electric shock. The device can become damaged.
Safety clearance must be guaranteed in accordance with IEC 60664--1. There must be at least 4 mm between the individual cores of the 230 V supply cable and the KNX line Ⓐ.



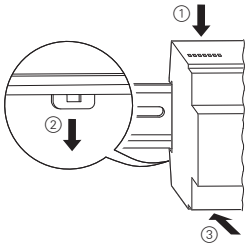
⚠⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

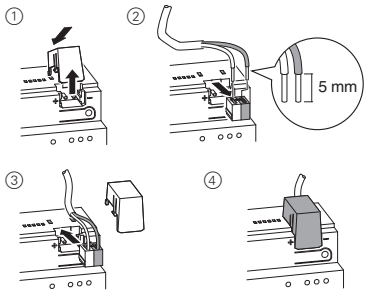
Make sure that live lines do not come into contact with unused terminals (e.g. by using cable separating raceways).

Failure to follow these instructions will result in death or serious injury.

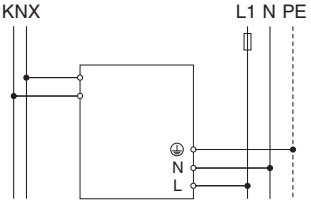
① Place the device onto the DIN rail.



② Connect KNX.



③ Connect the mains voltage.



The green operating display lights up when the power supply is ready for operation.

Meaning of the LEDs

The overcurrent display (I>Imax) lights up.
The operating display (RUN) lights up.

- The output current is too high. Remove devices from the line until the total power consumption of the remaining devices is less than the power supply unit's nominal current.

⚠ CAUTION

The device may be damaged!

No other power supply should be connected up to the power supply unit REG-K/640 mA within one KNX line!

Failure to follow these instruction can result in equipment damage.

The overcurrent display (I>Imax) lights up.
The operating display (RUN) does not light up.

- Short circuit in the bus line. Switch off the mains voltage for at least 30 seconds. Eliminate the cause of the short circuit. Then switch the power supply back on and press the reset key once.

When the power supply is reset (Reset LED is lit up) the bus line is released for about 20 seconds. All other devices that are connected to the same line are then also reset.

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Overview

RUN (green)	**I>Imax** (red)	
on	-	Power supply unit ready for operation
on	on	Power supply unit ready for operation, output current too high.
-	on	Short circuit in the bus line
-	-	No mains voltage

Technical data

Nominal voltage:	AC 110–230 V ±10%
Operation voltage:	AC min. 92 V - max. 253 V
Mains frequency:	50 - 60 Hz ±10%
Power consumption:	Max. 50 W
Output	
Nominal voltage:	DC 30 V ± 1V, SELV
Nominal current:	
Art. no. MTN684016	Max. 160 mA
Art. no. MTN684032	Max. 320 mA
Art. no. MTN684064	Max. 640 mA
Short-circuit current:	< 1.5 A
Buffer time:	approx. 200 ms (at 640 mA)
Environment	
Operating temperature:	-5 °C to +45 °C
Installation height:	Up to 2000 m above sea level
Humidity:	Max. 93 % relative humidity, no dew formation
Connections	
Inputs, outputs:	Screw terminals: Single-core: 1.5 mm^2 to 2.5 mm^2 Finely stranded (with core end sleeve): 1.5 mm^2 to 2.5 mm^2
KNX:	Bus connecting terminal
Dimensions:	90 x 72 x 65 mm (H x W x D)
Device width:	4 modules = approx. 72 mm
EC guidelines:	2004/108/EC, 2006/95/EC

Schneider Electric -Contact

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If you have technical questions, please contact the Customer Care Centre in your country.

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