Operating and mounting instructions
ComBridge PSU 640
Order. Nr.: 31320-20-03

General Usage

The KNX power supply PSU 640 generates the safety extra-low voltage that is required for KNX installations. The maximum output current for the PSU 640 power supply is 640mA for a nominal voltage of 30V.

Please remember to use one power supply for each bus line. The supply of several lines with the same power supply unit is not permitted.

A second output is available for unchoked voltage. The maximum voltage of 640mA includes the total current KNX + auxiliary voltage. Both outputs are protected against overload and short circuit.

Device types and accessories

The following device types from this product group are currently available:

Product	Description	Order-Nr.:
PSU 640	Power supply	31320-20-03

Scope of delivery

The scope of delivery of a Power supply 640 includes the following individual components:

- Complete device with connected bus connector
- Operating and mounting instructions
- Delivery in break-proof individual packaging

Application programs

No application program is required for the PSU 640 power supply.

Installation advice

Danger to life from electric current.

- The device is intended for interior installation in dry rooms.
- The device must only be installed and commissioned by an accredited electrical engineer.
- Please follow country-specific safety and accident prevention rules as well as all current KNX guidelines.
- During the installation the device must be switched off.
- Do not open the device.
- Faulty device must be returned to the manufacturer with a return delivery note.

Technical Specifications

CONNECTING DATA		
Power Supply	Supply Voltage: Consumption: Additional:	21..30VDC 24V/40mA (approx. 1W) via KNX Bus
Output voltage	Rated voltage: Rated current: Short circuit current limitation: Overvoltage protection	30V (SELV) 640 mA > 200% output current > 33V
Connectors	Main connection: 230V (L, N, PE) KNX: (black/red), TP Auxiliary voltage: 24VDC (unchocked)	3 pole screw terminal 1- 2,5mm² solid / stranded 0,6…0,8mm solid 2 pole screw terminal 1- 2,5mm² solid / stranded
GENERAL DATA		
Control and display elements	Reset button LED ON, green LED Reset, red LED I>Imax, red	To reset the connected bus line. Displays normal mode Displays when reset button is pressed. Indicator overloaded
Mechanical data	REG housing 3TE: Width: Height: Length: Weight: Mounting:	Plastic ABS – V0 50 mm 58 mm 90 mm 200 g 35mm DIN rail
Electrical safety	Pollution class: Protection type:* Protection class:** Overvoltage category: KNX Bus:	2 IP20 III III SELV DC 30V
EMC requirements	Complies with:	EMC directive 2014/30/EU
Environmental conditions	Weather resistance: Environmental conditions in operation: Storage temperature: Transportation temperature: Rel. humidity: (non condensing)	EN 50090-2-2 -5°C to +45°C -25°C to +55°C -25°C to +70°C 5 % to 93 %
Approbation and CE-Signage	KNX registered: According to EMC-Guidelines:	Yes (Residential and commercial buildings), Low Voltage guidelines.

* (according to EN 60529); ** (according to IEC 1140)

Location and function of the display and control elements

The device connectors as well as the programming button and programming LED that are required for commissioning are only accessible in the distribution box when the cover is removed.

1: 230V supply voltage
2: KNX bus connector terminal (black-red)
3: Reset button
4: Auxiliary voltage output
5: LED normal mode**, green**
6: LED reset is pressed, red
7: LED overload, red