

# **KNX-20E-640** Installation Manual

Валтарози Болнан Родикиза Ссебо ССС KNX SELV A.

## Introduction

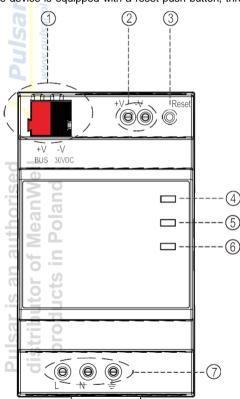
The KNX Power Supply KNX-20E-640 is a 640mA power supply with high efficiency and a small footprint of only 3SU (52.5mm). The device has a KNX bus choke output and an additional output for ancillary power. The -5℃ ~ +50℃ wide temperature operating range can meet all kinds of applications. LED indicators are used in case of normal operation, overload conditions and RESET operation. It is perfectly suitable to power up any products labeled with the KNX trademark. Mear

# Features

EIB/ KNX power supply with integrated choke Compact size with 3US (52.5mm) width Safety extra low voltage (SELV) 180 ~ 264Vac input No load power consumption < 0.5W 200ms mains failure back-up time Protections: Short circuit/ Overload (short-circuit-proof)/ Over voltage Cooling by free air convection an Isolation class I LED indicator for normal operation, bus reset and bus overload ທ Installed on DIN TS-35/7.5 or 15 Pulsar 3 years warranty

## Display

The device is equipped with a reset push button, three LEDs and terminal blocks for the AC, KNX bus line and ancillary output.



1	KNX bus terminal (Red : BUS +V, Black : BUS -V)
2	Ancillary power terminal Poland
3	RESET button
4	Power ON (Green)
5	Reset (Red)
6	I > I max (Red)
7	AC terminal (L,N,≟)

an authorised MeanWel of products distributor Pulsar is

of

products distributor



## Installation

### 1. Wiring

Use wires with an adequate cross-section

Use suitable mounting tools to do the wiring and mounting

The maximum number of bus devices connected is 64

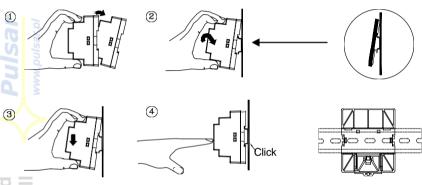
The maximum length of a line segment is 350 m, measured along the line between the power supply and the furthest bus device The maximum distance between two bus devices cannot exceed 700 m

The maximum length of a bus line is 1000 m, keeping into account all segments

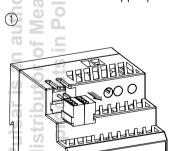
	AC and ancillary power terminals (L, N, $\stackrel{\perp}{=}$ , +V, -V)	KNX bus terminal (BUS +V, BUS -V)	Well
Solid wire	0.5 ~ 4.0mm	0.6 ~ 0.8Φ	an
Stranded wire	0.5 ~ 2.5mm <sup>2</sup>		th le
American wire gauge	12 ~ 26AWG	20 ~ 22AWG	au F N
Wire stripping length	6.5mm (0.255")	5mm (0.196")	c Ö
Screwdriver	3mm Slotted		0 a
Recommended tightening torque	8 kgf-cm (7 lb-in)		it is
Mounting and Connection	,		strib

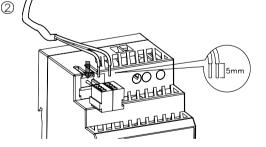
## 2. Mounting and Connection

a. Insert the power supply onto the DIN rail (TS35/7.5 or TS35/15).



b. Connect the KNX, the connection to the KNX bus line is made with the terminal block (red: BUS +V/ black: BUS -V) located on the left upper part of the front.



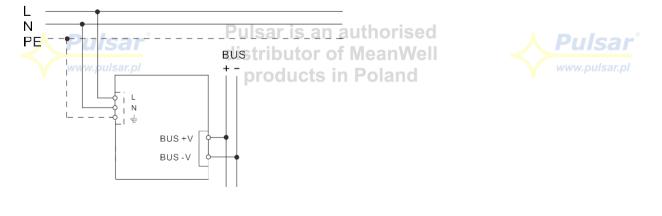


3

90 O

TIT

c. Connect the mains voltage, the connection to the AC is made with the terminal (L, N,  $\frac{1}{2}$ ) located on the bottom.



#### 3. MCB

Use a MCB (miniature circuit breaker) with an adequate current rating to protect the KNK device.

Model	B10	B16	C10	C16
KNX-20E-640	1	2	2	4

Note: These calculated values are based on MCB S201 series manufactured by ABB.

#### **Function and Operation**

The device does not require any configuration with ETS® (Engineering Tool Software) tool. Once the wiring is proper done, the "Power on" LED will light up and the rest of the LEDs remain off to indicate that the unit is in operation condition.

Reset : To carry out a reset, press the RESET button for at least 20 seconds to reset the KNX power supply.

Fault : If the red LED (I > Imax) lights up with applied mains voltage, a fault is present. This means that the KNX output is overloaded or

shot-circuited. The problem can be solved by removing the cause of the short circuit or by reducing the number of KNX devices

connected to the line. Once the fault has been rectified, carry out a reset by pressing the RESET button for approx. 20 seconds.

Power ON (GREEN)	Reset (RED)	I > Imax (RED)	Status
ON	OFF	OFF	Ready for operation or working normally
OFF	ON	OFF	Resetting
ON	OFF	ON	Output current too hig
OFF	OFF	ON	Short-circuit or bus reverse polarity
OFF	OFF	OFF	No mains voltage

## **Environmental Limitations**

Maximum ambient temperature must not exceed 50°C

Always allow adequate ventilation clearances, 5mm left and right, 40mm above and 20mm below, around the unit in use to prevent it from overheating

Only install the unit in indoor environments

#### 0 0

#### Cautions

This unit must be installed by a qualified electrician

It should be ensured that the supply can be isolated when connecting the unit.



## Environmental declaration information

https://www.meanwell.com//Upload/PDF/RoHS\_PFOS.pdf https://www.meanwell.com//Upload/PDF/REACH\_SVHC.pdf https://www.meanwell.com//Upload/PDF/Declaration\_RoHS-E.pdf



Pulsar is an authorised distributor of MeanWell products in Poland



0

Julsar

stributor oproducts

distributor

ပ

Pulsar