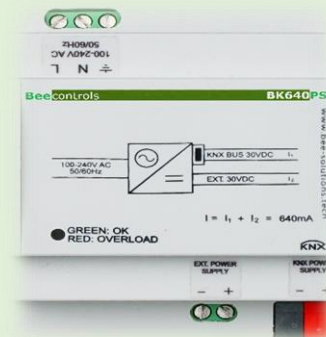


BK-XXX-PS



KNX POWER SUPPLY

DESCRIPTION



BK-XXXPS KNX power supplies generate and monitor the KNX system voltage (SELV). They ensure the supply of the KNX subscribers with electrical energy and data communication via the bus line, which is decoupled from the power supply by an integrated choke.

The BKXXXPS power supplies has two-color LED indicates device output status & The voltage output is short-circuit and overload protected.

TECHNICAL NOTES

➤ The Device will be switched off automatically in case the housing temperature exceeds 100 °C (overheat protection) and it will be switched ON again only after disconnected the device from the mains for 60 seconds and cool it to reach the operational temperature internally and after removing the cause of the overload before switching back on.

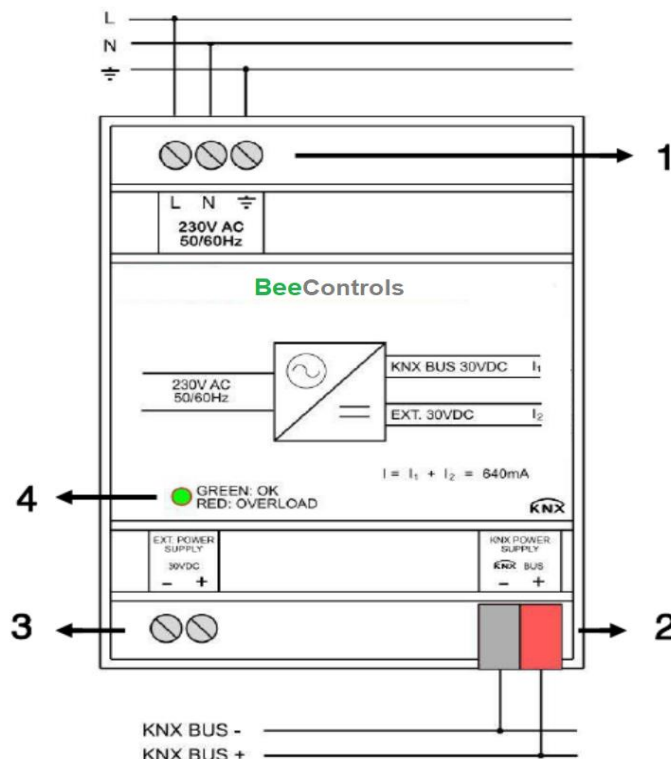
➤ When commissioning the device, ensure that the rated current is not continuously exceeded.

➤ The voltage output without choke (I2) is not electrically isolated from the KNX voltage output (I1). It may only be used to power an additional bus line in combination with a separate choke.

➤ Devices are designed for continuous operation, not for frequent switching ON/OFF.

CONNECTION DIGRAM

1. Line Input 230 VAC (+/- %10) .
2. KNX BUS.
3. External Supply Output.
4. LED Indication.



KNX BUS & HARDWARE CONFIGURATION

1. Status Led
 Green: Trouble-Free.
 Red: Overload.
 Red (Flashing): Short Circuit.
2. Configuration
 The complete configuration of the device is carried out via ETS software.

MOUNTING AND SAFETY INSTRUCTIONS

- The device should only be installed and put into operation by qualified electrician or authorized person.
- Failure to observe the instructions may cause damage to the device and result in fire and other hazards.
- Do not connect the main voltage (230 VAC) or any other external voltages to any point of the KNX bus.
- Ensure that there is enough insulation and space between the 230 VAC voltage cables and KNX bus.
- Installation only in dry locations and on 35 mm DIN rail, and do not expose this device to direct sunlight, Or high humidity.
- Connect the KNX bus line with a KNX bus cable, to be stripped and plugged into the KNX connector.
- Do not use aerosol sprays, solvents or abrasives that might damage the device.
- Accessibility of the device for operation and visual inspection must be provided.
- Check and re-tighten all connections after installation.
- Power supply has an additional 30 VDC short circuit and overload protected voltage output that can be used to power an additional bus line (in combination with a separate choke).
- The voltage output is overload, short circuit and over temperature protected.
- Output without choke can be used as a constant 30 VDC supply and output with choke can be used as a KNX Bus supply.

TECHNICAL DATA:

Electrical Parameters			
Device Name	BK160PS	BK320PS	BK640PS
Rated Current	160Ma	320mA	640mA
Power consumption (min)	6.6 W	12.5 W	24 W
Power consumption (max)	21 W	30 W	55 W
Input Voltage	100 Volt~240 Volt AC		
Operating frequency	50/50Hz		
Channels Number	Single Line with integrated choke		
Power Supply output	KNX BUS Voltage, 30V DC, +/-2Volt		
overload, short circuit and over temperature protection	YES	YES	YES
LED Status			
LED indications	Green:		I < I _{ovL}
	Red:		Overload
	Red flashing:		Short-circuit
Environmental parameters			
Operating Humidity	>90 RH		
Storage Humidity	Up to 92%		
Operating temperature	-10°C ~ +45°C		
Storage Temperature	-15°C ~ +55°C		
Transport Temperature	-15°C ~ +60°C		
Device Parameters			
Protection type	IP20		
Input type	Single phase		
Mounting	(35m) Din-Rail		
Flammability	Non-Flammable Product		
Dimensions (W x H x D) mm	71.8 X 90 X 65.5		
KNX Bus Connector	0.6 ~0.8 Ø, solid		
Input connectors	Screw terminal, 2.5 mm ² stranded ~ 4 mm ² Solid		
Tightening torque	Maximum 0.4 Nm		
Available colors	White & Light Gray		