

Translation of original operating instruction

PSX-640



1

General information

1.1

Notice

This document is part of the product. Keep this operating instruction for future references.

1.2

Scope of delivery

Check the delivery according to the delivery note.

Product designation

Art.-Nr.	Description
0103002.101	PSX-640
	Operating instruction

1.3

Product description

The power supply PSX 640 provides the system specific KNX bus voltage. The integrated choke prevents the data telegrams from short-circuiting on the bus line. The voltage tap is established via the bus connection blocks on the front side – choked KNX bus voltage via red-black connection block and unchoked voltage via clamps V+ and V-.

1.4

Limitations of liability

All information and notes in this operating instruction has been compiled in consideration of the applicable standards and regulations, the state of the art as well as our many years of knowledge and experiences.

The manufacturer assumes no liability for damages and operational malfunction due to

- disregarding this operating instruction
- improper use
- faulty connection
- non-use of original spare parts and accessories

1.5

Disposal

The disposal of this product in normal household waste is forbidden within the European Union.

Dispose of the device via the municipal collection points.

The packaging materials used are recyclable. Dispose of packaging materials that are no longer required according to local regulations.

1.6

Copyright

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1.7

Manufacturer/ Customer service

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Safety

2.1

Intended use

The Power supply is intended to be used as a supply for a KNX bus line under observance of the technical specifications.

Any other use or extended use is considered to be improper.

2.2

Foreseeable misuse

Any use for a purpose other than the above mentioned purpose is improper. The risk of improper use or misuse is borne solely by the operator.

All types of claims due to damage arising from improper use are excluded.

2.3

Personnel's qualification

Improper use can cause considerable personal injury and material damage!



All tasks for installation, connection and commissioning must be carried out exclusively by a qualified electrician.

A qualified electrician is able to carry out work on electrical installations due to her/ his professional training, knowledge, and experience as well as knowledge of the relevant standards and regulations. She/ he can identify and avoid possible dangers.

The qualified electrician is trained for the specific place of employment in which she/ he is working and is aware of the relevant standards and regulations.




2.4

Basic safety instructions

	<div><div><div><div><div></div><div><b>DANGER</b></div></div></div><div><div><div><div><div></div><div><b>Danger of life!</b></div></div></div><div>There is a risk of life when touching live parts.</div><div><div>► All tasks must be carried out exclusively by qualified personnel.</div><div>► Disconnect all power supplies before starting work.</div></div></div></div></div></div>
	<div><div><div><div><div></div><div><b>CAUTION</b></div></div></div><div><div><div><div><div></div><div><b>Material damage!</b></div></div></div><div>Incorrect wiring and configuration of the device can lead to damage up to total failure.</div><div><div>► Ensure that the supply voltage corresponds to the specifications from the technical data for the device.</div><div>► Ensure that the rated current complies with the connected KNX devices</div></div></div></div></div></div>

2.5

Signage

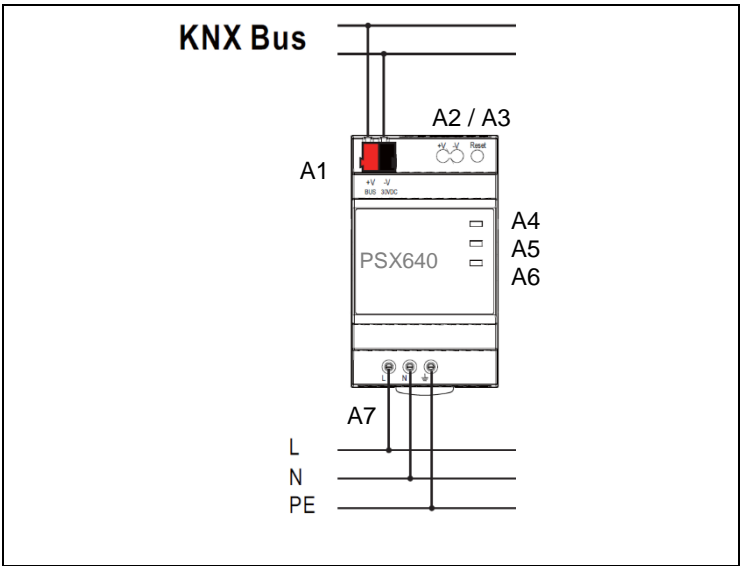
Symbol	Meaning
	General warning
	Electrostatic discharge
	CE label

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Design and function

3.1

Complete overview



Location of control and display elements

- A1 Bus connection block (red/-black) for single wire 0,6 – 0,8 mm Ø - choked bus voltage
- A2 Extra low-voltage terminals - unchoked voltage
- A3 Reset-button
- A4 LED: normal operation
- A5 LED: power supply unit is in reset position
- A6 LED: overload (to many bus devices connected or short circuit on bus
- A7 Connection for mains

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Installation

4.1

Mounting

To mount the device, proceed as follows

- place the device on the DIN rail in the desired position and lock in

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Starting up

- Check device, clamps and connections
- Switch on the power supply and check the LED states
- Mount all covers, apply special labels, if necessary, update the technical documentation

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Technical data

General		
Operating environment	Dry rooms (free of condensation) +5° to +45°C pollution index 2	
Mounting	DIN rail 35mm or equivalent	
Dimensions (W x H x D)	3 SU	
	52,5 x 90.5 x 55	mm
Weight	215	g

	<div><div><b>NOTICE</b></div><div>The connection and the wiring of the local operation units and the KNX bus must be carried out according to the current SELV requirements.</div></div>
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Connection Data		
Supply voltage	230 ± 10 %	V <sub>AC</sub>
	50	Hz
Cable	3 wire	
	single/multiwire	
Connection	2,5	mm <sup>2</sup>
Tightening torque	0,8	Nm
Protection current	10	A
Protection	IP 20	
Degree of pollution	II	
Connections	0,5 – 2,5 single wire	mm <sup>2</sup>
	0,5 – 1,5 fine wire	
	0,5 – 2,5 multi wire	
	0,5 – 2,5 fine wire with cable shoe	

Output		
Rated voltage	29 (SELV) (28 – 30)	V <sub>DC</sub>
Rated current	640	mA
Short circuit current	1,4	A
Rated Power	24	VA
Protection circuit	Short circuit proof due to voltage and current control	
Connections	0,6-0,8 single wire	mm <sup>2</sup>
Tightening torque	0,8	Nm

KNX		
Bus connector	Ø 0.5 ... 0.8	mm
	single wire	
Bus cable	according to KNX standard	