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Choke

Order-No. 0581 00





Contents

<u>1</u>	Product definition	<u>.</u> 3
	1.1 Product catalogue	. 3
<u>2</u>	Installation, electrical connection and operation	<u>. 4</u>
	2.1 Safety instructions	4
	2.2 Device components	. 5 6
	2.2 Device components 2.3 Fitting and electrical connection 2.4 Commissioning	. 8
<u>3</u>	Technical data	<u> 9</u>
<u>4</u>	Scope of functions	<u>10</u>
<u>5</u>	Appendix	<u>11</u>
	5.1 Index	11



1 Product definition

1.1 Product catalogue

Product name: Choke

Use: System device

Design: Rail-mounted device

Order-No. 0581 00

1.2 Function

The KNX choke is a system component. It decouples a KNX line from the respective KNX power supply and thus prevents the short-circuit of the data telegrams by the power supply unit. The choke additionally forms the line terminator required for function-oriented signal transmission.

If an unchoked voltage output of a KNX power supply is used, the KNX choke can be used to supply another KNX line.

Order-No. 0581 00 Page 3 of 12



2 Installation, electrical connection and operation

2.1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons. The applicable accident prevention regulations must be observed.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Hazard due to electric shock on all parts of the bus installation. During assembly with data rail, cover free areas of the data rai with cover strips.

The device may not be opened or operated outside the technical specifications.

Order-No. 0581 00 Page 4 of 12



2.2 Device components

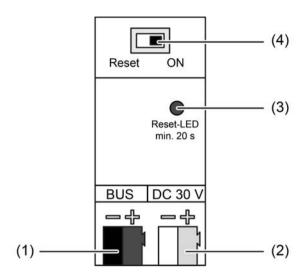


Figure 1: Device components

- (1) Bus connection
- (2) Connection DC 30 V
- (3) Reset LED (red)

On: Bus line is short-circuited, bus reset.

- (4) Reset switch for bus line
 - Position ON: Bus line in operation

Position Reset: Bus line is short-circuited, bus reset.

i A bus reset should take at least 20 seconds.

Order-No. 0581 00 Page 5 of 12



2.3 Fitting and electrical connection



DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, disconnect the power supply and cover up live parts in the working environment.

Fitting and connecting device with data rail

If a data rail is used, bus line and power supply DC 30 V can be supplied to the device via data rail contacts.

The connection of additional cables to the device via terminals is optional if the bus line and power supply are already connected to the data rail via additional data rail connectors. In this case, the terminals of the device can be used as additional data rail connectors to connect an outgoing bus cable, for example.

If no data rail connectors are used, bus line and power supply DC 30 V must be connected to the device via terminals. The data rail will then be supplied via the device.

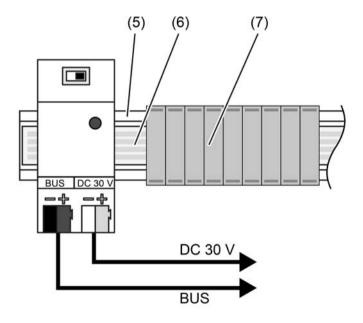


Figure 2: Device connection with data rail

Data rail (6) is glued into mounting rail (5).

- Snap device onto DIN rail.
- Cover free areas of the data rail with cover strips (7).

Optional, if additional data rail connectors are available:

- Connect power supply to the terminal (2) (Figure 1).
- Connect bus line to terminal (1).

Fitting and connecting device without data rail

The device can be used without data rail. Bus line and power supply DC 30 V must be connected to the device via terminals.

Order-No. 0581 00 Page 6 of 12



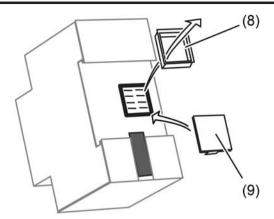


Figure 3: Rear view of device

- Remove the guide (8) of the data rail contacts. To do this, insert a small screwdriver laterally between the housing and guide and raise the guide.
- Attach the enclosed insulating cap (9) onto the data rail contacts and lock into place by pressing.
- Snap device onto DIN rail.
- Connect power supply to the terminal (2) (Figure 1).
- Connect bus line to terminal (1).

Order-No. 0581 00 Page 7 of 12



2.4 Commissioning

After properly fitting, the device is ready for operation. The device has no physical address and no application program either. Consequently, commissioning by the ETS is not necessary.

i A KNX choke can generally be added to an ETS project in order to create parts lists or to test projects successfully, for example. A product entry is available in the manufacturer's catalogue (without application program) for the KNX choke whereby the device is integrated into a line or area and thus the ETS project can be completed.

Order-No. 0581 00 Page 8 of 12



3 Technical data

General

Mark of approval
Ambient temperature
Storage/transport temperature
Relative humidity
Fitting width
Weight

Connection KNX "Bus"

KNX medium Bus output voltage Output current Connection, Bus

Connection "DC 30 V"

Rated voltage Connection of power supply KNX/EIB

-5 ... +45 °C -25 ... +70 °C

5 ... 93 % (No moisture condensation) 36 mm / 2 modules approx. 100 g

DC 28 ... 31 V SELV 640 mA (all outputs) Connection terminal

DC 29 ... 32 V SELV

Connection terminal



4 Scope of functions

- Decoupling of bus line and power supply.

 Operation with or without KNX data rail possible.

 Contact to the data rail via contact spring system.

 Terminals on the panel of the device for bus terminal and power supply.

 Reset switch for activation of the bus line.
- Indicator LED for reset state.

Page 10 of 12 Order-No. 0581 00



5 Appendix

5.1 Index

A application program	8
C commissioning	8
D data raildata rail connectorsdata rail contacts6	6
E ETS	8
I insulating cap	7



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Order-No. 0581 00