

## Plug connectors

# 12

Product group

## Z KC X Z KC G

### Designs

- 2 or 3 pole and protective contact
- With and without rectifier
- Rectangle design
- Colour black

### Construction

- Junction box with cable gland
- Fastening with central screw M3
- Connection with screw terminal
- Protection class according to DIN VDE 0470/DIN EN 60529 when properly installed: IP 65
- Cable gland can be rotated by 180° through the appropriate insertion of the contact carrier
- Delivery with sealing

### Application examples

- Direct connection to the DC or AC circuit of DC control solenoids, power transmission devices and similar

### Standards

- Design according to DIN EN 175301-803




**Fig 1:** type Z KC X 209 B01  
(without rectifier)  
type Z KC G 209 B01  
(with rectifier)

## Technical data of the series Z KC X, Z KC G

Plug connectors may not be connected or separated under electric voltage.

Tightening torque of the central screw is 50 Ncm max. 60 Ncm

Type	Plug contacts			Cable gland Size	Cable diameter (mm)	Max. cross-section lead ends	Rectifier Input max. ~230 V	Form	Dim. Fig.	Temp. range observe derating!
	Qty	Rated current (A)	Reference voltage (V)							
Z KC X 209 B01	2+ Protective Contact	16 <sup>1)</sup>	250 AC 300 DC	PG 9 <sup>2)</sup>	4,5 - 7	3 x 1,5 mm <sup>2</sup>			10	-40...125°C <sup>4)</sup>
Z KC G 209 B01	2+ Protective Contact	2 <sup>3)</sup>	250 AC/DC		4,5 - 7	3 x 1,5 mm <sup>2</sup>			Output max. 205 V	10

- 1) The indicated current applies only for a reference temperature of 45°C for type Z KC X. Ampacity for higher reference temperatures with connected cable diameter of 1.5 mm<sup>2</sup> for plug connector Z KC X according to fig. 2
- 2) An adjustment to the cable diameter is possible by simple removing of the respective rubber bands (see fig. 6)
- 3) The indicated current applies only for a reference temperature of 30°C. Ampacity for higher reference temperatures according to fig. 4. In Switzerland limited to 1.5 A (dotted line) by SEV-directive 1011. Output voltage according to fig. 3.
- 4) The type with 3 contacts is also used for devices with 2 contacts

### Information for the application of the types Z KC G with rectifier:

Please take care that the AC circuits are largely free of peak voltages. If big inductances and capacities are switched in close vicinity of the devices, it must be ensured that voltage peaks will be made ineffective by appropriate switching means (inductor or filter chains).

AC side switching should be the objective.

## Connector load diagrams sockets without rectifier type Z KC X

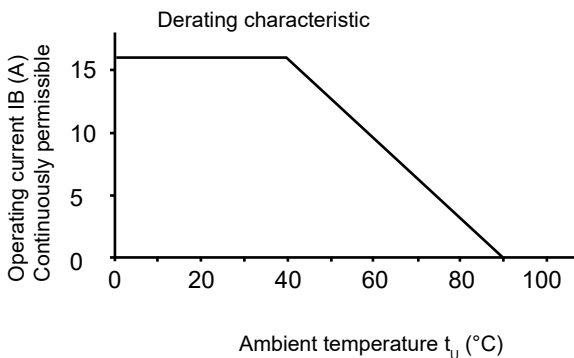


Fig. 2  
Derating characteristic for the plug connector type Z KC X 209 B01

## Diagrams and connection scheme for plug connectors without rectifiers type Z KC X

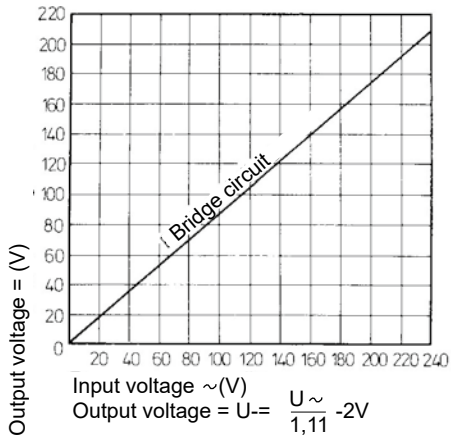


Fig. 3 MSM-Fo 0804.1386  
Output voltage depending on the input voltage for the plug connector with rectifier type Z KC G 209 B01

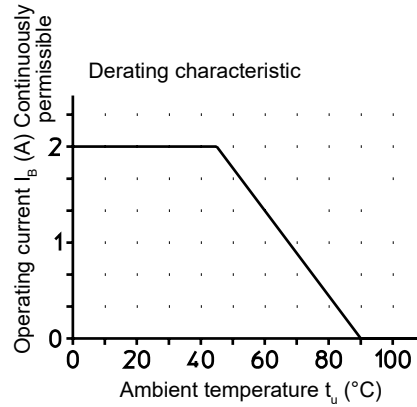


Fig. 4 Derating characteristic 100% ED for the plug connector with rectifier type Z KC G 209 B01

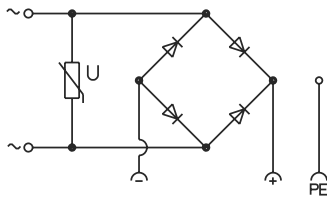


Fig. 5 Connection scheme Plug connector with bridge rectifier Type Z KC G 209 B01

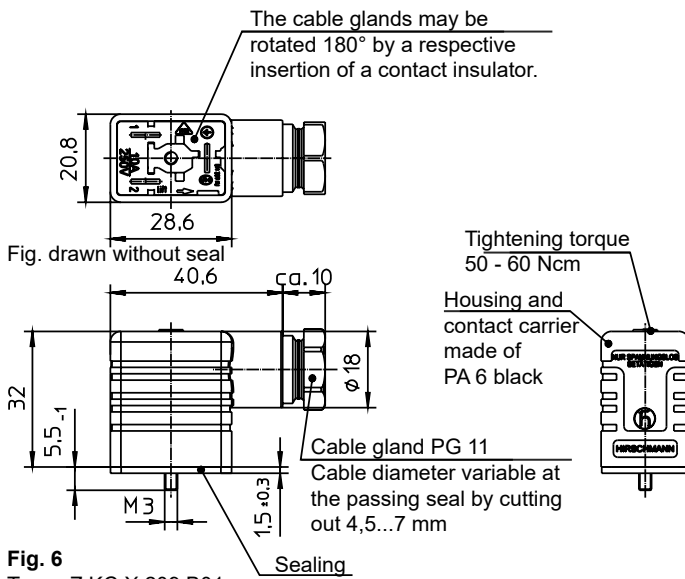



Fig. 6 Types Z KC X 209 B01 Z KC G 209 B01


The cable glands may be rotated 4 times 90° by a respective insertion of a contact insulator.

**Information and remarks concerning European directives** can be taken from the correspondent information sheet which is available under *Produktinfo.Magnet-Schultz.com*.

**Please make sure that the described devices are suitable for your application. Our offers for these devices are based on the assumption of maximal 8 in an FMEA severity table, i. e. in case of malfunction of the device model as offered, there is, amongst others, no jeopardy of life or limb. Supplementary information concerning its proper installation can be taken also from the  -Technical Explanation, the effective DIN VDE0580 as well as the relevant specifications.**

This part list is a document for technically qualified personnel.  
The present publication is for informational purposes only and shall not be construed as mandatory illustration of the products unless otherwise confirmed expressively.


### Type code

Type	Form	Number of poles	Wiring	Supplier designation (Fa. Belden)
Z KC X 209 B01		2 + PE	without	GM 209 NJ black sealing NBR GM 207-3
Z KC G 209 B01		2 + PE	bridge rectifier, varistor	GML 209 NJ GB1 black sealing NBR GM 207-3

### Order example

Type                      Z KC X 209 B01

### Specials designs

Please do not hesitate to ask for our assistance with the solution of your application-oriented task. In order to find rapidly a reliable solution we need complete details about your application conditions. The details should be specified as precisely as possible in accordance with the relevant  -Technical Explanations.

If necessary, please request the support of our corresponding technical office.