SCHMERSAL
THE DNA OF SAFETY

EX-BN 20-11RZ-3G/D

- **2 reed contacts**
- **Ex-Zone 2 and 22**
- **Screw connection**
- **Aluminium enlosure**
- **Non-contact principle**
- **104 mm x 52 mm x 47 mm**
- **Actuating distance up to 50 mm depending on actuating magnet and version**

Data

Ordering data	
	EX-BN 20-11RZ-3G/D
	101186630
EAN (European Article Number)	4030661333724
eCl@ss number, Version 9.0	27-27-01-05
Explosion protection	
	EN 60079-0 EN 60079-15 EN 60079-31
	22 2
	3D 3G
	⟨Ex⟩ II 3G Ex nC IIC T5 Gc X ⟨Ex⟩ II 3D Ex tc IIIC T90°C Dc X
Manufacturer declaration	ATEX Zone 2 and 22
General data	
	EX-BN 20
Active principle	Magnetic drive
Housing construction form	rectangular
Enclosure material	Light-alloy diecast, paint finish
Active area	Metal film

Gross weight	330 g
General data - Features	
bias magnet	Yes
Number of snap-in contacts	2
Mechanical data	
Actuating panels	lateral
Active area	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
	12 mm ... 50 mm
Notice (Switch distance Sn)	Actuating distance up to 50 mm depending on version and actuating magnet
Repeat accuracy R R	0.3 mm
Impact energy, maximum	4 J
Actuating speed, maximum	18 m/s
Mechanical data - Connection technique	
Terminal Connector	Screw connection
Cable cross-section of the cable glands, minimum	6 mm
Cable cross-section of the cable glands, maximum	10 mm
Mechanical data - Dimensions	
Height of sensor	52 mm
Length of sensor	47 mm
Width of sensor	104 mm
Ambient conditions	
	IP67
Ambient temperature, minimum	-15 °C
Ambient temperature, maximum	+70 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Resistance to vibrations to EN 60068-2-6	10 … 55 Hz, amplitude 1 mm
	30 g / 11 ms
Resistant to vibration	50 g, on sine wave oscillation

Electrical data	
Voltage type	AC (alternating current)
Switching voltage, maximum	250 VAC
Switching voltage, maximum	250 VDC
Switching current, maximum	3 A
Switching capacity, maximum	120 W
Switching capacity, maximum	120 VA
Switching element	Bistable contact, NC / NO
Bounce duration, minimum	0.3 ms
Bounce duration, maximum	0.6 ms
Electrical data - Digital Output	
Versions	Reed contacts
Scope of delivery	
Included in delivery	Actuators must be ordered separately. Ex-certified screwed cable gland
Accessory	
	2x BP 15/2 BP 20 BP 10 S 2x BP 10 S BP 34 S BP 20 S BP 31 S BP 11 S BP 21 S 2x BP 21 S BP 10 N 2x BP 10 N BP 15 N BP 34 N BP 20 N BP 31 N BP 11 N 2x BP 11 N 2x BP 12 S BP 21 N 2x BP 21 N BE 20 N(S) ST 24VDC BE 20 N(S) 48VDC BP 15/2 N

Notes

Note (General)	The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets. When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N).

Ordering code

Product type description:

EX-BN 20-(1)Z-3G/D

(1)

01 1 NC contact
02 2 NC contact
10 1 NO contact
20 2 NO contacts
11 1 NC contacts / 1 NO contact
R 1 bistable contact
2R 2 bistable contact
11R 2 bistable contact NC / NO

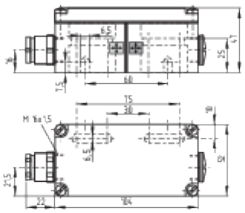
Pictures

Photo/Product/Catalogue

ID: kexbnf01

| 507,1 kB | .jpg | 352.778 x 181.328 mm - 1000 x 514 Pixel - 72 dpi
| 35,7 kB | .png | 74.083 x 38.1 mm - 210 x 108 Pixel - 72 dpi

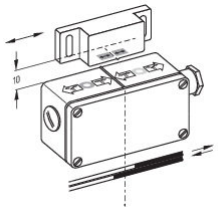
Dimension/Product/Basic



ID: 1bn20g03

| 10,8 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel - 72 dpi
| 127,3 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 Pixel - 72 dpi
| 33,4 kB | .cdr |

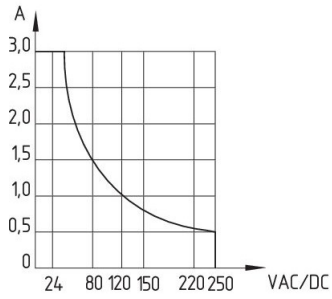
Graphic/Product/Contact



ID: 1bn20k02

| 102,6 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693 Pixel - 72 dpi

Diagramm/Product/Curve



ID: kbn32d01

| 110,5 kB | .jpg | 352.425 x 371.828 mm - 999 x 1054 Pixel - 72 dpi