

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



- 2 reed contacts
- Ex-Zone 2 and 22
- Screw connection
- Aluminium enclosure
- 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 20-11Z-3G/D
	101188634
EAN (European Article Number)	4030661344447
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
	⊕ II 3G Ex nC IIC T5 Gc X
	⊕ 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	315.5 g
--------------	---------

General data - Features

bias magnet	Yes
Number of openers	1
Number of shutters	1

Mechanical data

Actuating panels	lateral
Active area	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
	12 mm ... 45 mm
Notice (Switch distance S _n)	Actuating distance up to 45 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	NO contact / NC contact
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 10
2x BP 15/2
BP 20
BP 31
BP 11
BP 12
BP 21
BE 20

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

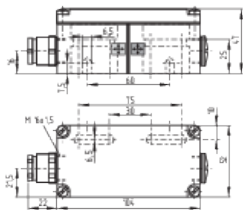


ID: kexbnf01

| 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



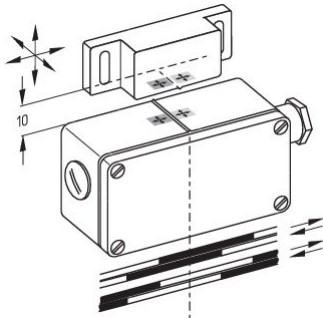
ID: 1bn20g03

| 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

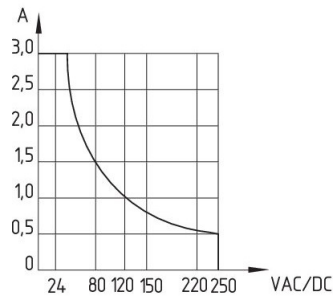


ID: 1bn20k01

| 66,1 kB | .cdr |

| 187,4 kB | .jpg | 352.778 x 349.25 mm - 1000 x 990 Pixel - 72 dpi

Diagramm/Product/Curve



ID: kbn32d01

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

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

Generated on 072021-01-31T16:59:07+01:000401Europe/BerlinSun, 31 Jan 2021 16:59:07

+010007pmSunday.31pm31Europe/BerlinCET5901Europe/BerlinJanuary2021Sun, 31 Jan 2021 16:59:07

+010001pm31