



EX-BN 20-RZ-3G/D

- 1 Reed contacts
- Explosion protection for ATEX Zones 2 and 22
- Aluminium enclosure
- 104 mm x 52 mm x 47 mm
- Actuating distance up to 50 mm depending on actuating magnet and version
- Non-contact principle
- Screw connection

Data

Ordering data

EAN (European Article Number)	4030661332659
eCl@ss number, Version 9.0	27-27-01-05
eCl@ss number, Version 11.0	27-27-01-05
ETIM number, version 6.0	EC002544
ETIM number, version 7.0	EC002544

Explosion protection

Explosion protection: regulations	EN 60079-0 EN 60079-15 EN 60079-31
Explosion protection zones	22 2
Explosion protection category	3D 3G
Explosion protection designation	⊕ II 3G Ex nC IIC T5 Gc X ⊕ II 3D Ex tc IIIC T90°C Dc X

General data

Active principle	Magnetic drive
Housing construction form	rectangular
Enclosure material	Light-alloy diecast, paint finish
Active area	Metal film
Gross weight	304.5 g

General data - Features

Latching	Yes
bias magnet	Yes
Number of snap-in contacts	1

Mechanical data

Actuating panels	lateral
Active area	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
Repeat accuracy R R	0.3 mm
Impact energy, maximum	4 J
Actuating speed, maximum	18 m/s

Mechanical data - Switching distances according IEC 60947-5-3

Switch distance S_n	12 mm ... 50 mm
Notice (Switch distance S_n)	Actuating distance up to 50 mm depending on version and actuating magnet

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

Length of sensor	47 mm
Width of sensor	104 mm
Height of sensor	52 mm

Ambient conditions

Degree of protection	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
Resistance to shock	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
Bounce duration, minimum	0.3 ms
Bounce duration, maximum	0.6 ms

Electrical data - Digital Output

Versions	Reed contacts
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Scope of delivery

Included in delivery	Actuators must be ordered separately. Ex-certified screwed cable gland
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Accessory

Recommendation (actuator)	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
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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).

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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.

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