

## EX-BN 20-01Z-3G/D



- 1 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 20-01Z-3G/D |
|                               | 101189767         |
| EAN (European Article Number) | 4030661347486     |
| 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 g |
|--------------|-------|

#### General data - Features

|                   |     |
|-------------------|-----|
| bias magnet       | Yes |
| Number of openers | 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            | Opener (NC)              |
| Bounce duration, minimum     | 0.3 ms                   |
| Bounce duration, maximum     | 0.6 ms                   |
| Switching frequency, maximum | 300 Hz                   |

## Electrical data - Digital Output

|          |               |
|----------|---------------|
| Versions | Reed contacts |
|----------|---------------|

## Scope of delivery

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| Included in delivery | Actuators must be ordered separately.<br>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.<br>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

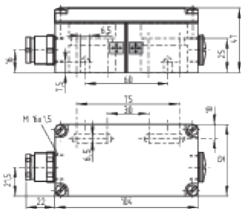


ID: kexbnf01

| 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



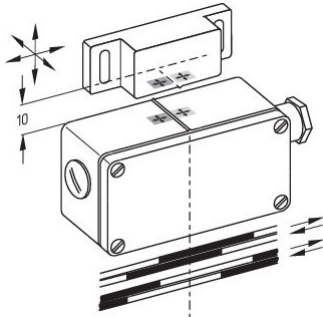
ID: 1bn20g03

| 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

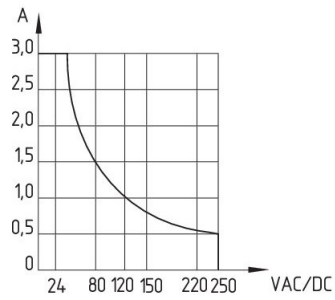


ID: 1bn20k01

| 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

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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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