



BN 20-RZ

- Long life
- 1 Reed contacts
- Screw connection
- Aluminium enclosure
- With pre-wired cable
- Non-contact principle
- 104 mm x 52 mm x 47 mm
- Highly resistant to vibration
- Available for actuation from front or side
- Actuating distance up to 50 mm depending on actuating magnet and version

Data

Ordering data

	BN 20-RZ
	101168090
EAN (European Article Number)	4030661220567
eCl@ss number, Version 9.0	27-27-01-05

General data

	BN 20
	EN 60947-5-1
Active principle	Magnetic drive
Housing construction form	rectangular
Enclosure material	Aluminium
Active area	Metal film
Gross weight	290 g

General data - Features

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

Mechanical data

Actuating panels	lateral
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Active area	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
	5 mm ... 50 mm
	BP 10S = 5 mm
	2 x BP 10S = 10 mm
	BP 20S = 15 mm
	BP 31S = 15 mm
	BP 11S = 5 mm
	2 x BP 11S = 15 mm
	BP 12S = 10 mm
	BP 10N = 5 mm
	2 x BP 10N = 10 mm
	BP 15N = 7 mm
	BP 15S = 7 mm
	2 x BP 15/2N = 15 mm
	2 x BP 15/2S = 15 mm
	BP 34N = 10 ... 25 mm
	BP 34S = 10 ... 25 mm
	BP 20N = 15 mm
	BP 31N = 15 mm
	BP 11N = 5 mm
	2 x BP 11N = 15 mm
	BP 12N = 10 mm
	2 x BP 12N = 5 ... 20 mm
	2 x BP 12S = 5 ... 20 mm
	BP 21 N = 10 ... 35 mm
	BP 21 S = 10 ... 35 mm
	2 x BP 21N = 15 ... 50 mm
	2 x BP 21S = 15 ... 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
Actuating speed, maximum	18 m/s

Mechanical data - Connection technique

Terminal Connector	Screw connection
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Mechanical data - Dimensions

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

Ambient conditions

	IP67
Ambient temperature, minimum	-25 °C

Ambient temperature, maximum	+90 °C
Resistant to vibration	50 g, on sine wave oscillation

Electrical data

Voltage type	AC (alternating current)
Switching voltage, maximum	250 VAC
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
Switching frequency	1,080,000 /h

Electrical data - Digital Output

Versions	Reed contacts
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Scope of delivery

Included in delivery	Actuators must be ordered separately.
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Accessory

BP 10 S
2x BP 10 S
BP 15 S
BP 34 S
BP 20 S
BP 31 S
BP 11 S
2x BP 11 S
BP 12 S
BP 21 S
2x BP 21 S
BE 20 S
BP 10 N
2x BP 10 N
BP 15 N
2 x BP 15/2 N
2x BP 15/2 S
BP 34 N
BP 20 N
BP 31 N
BP 11 N
2x BP 11 N
BP 12 N
2x BP 12 N
2x BP 12 S
BP 21 N
2x BP 21 N
BE 20 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).

Pictures

Photo/Product/Catalogue

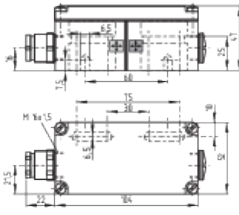


ID: kbn20f01

| 569,4 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 Pixel - 72 dpi

| 45,1 kB | .png | 74.083 x 111.125 mm - 210 x 315 Pixel - 72 dpi

Dimension/Product/Basic



ID: 1bn20g03

| 10,8 kB | .png | 74.083 x 51.858 mm - 210 x 147

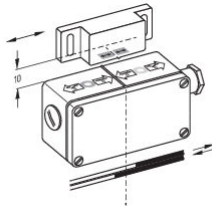
Pixel - 72 dpi

| 127,3 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701

Pixel - 72 dpi

| 33,4 kB | .cdr |

Graphic/Product/Contact

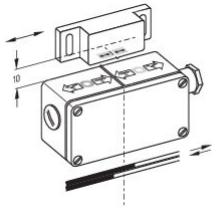


ID: 1bn20k02

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

Pixel - 72 dpi

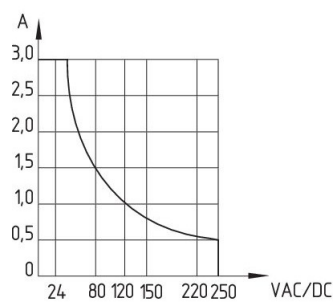
Graphic/Product/Contact



ID: 1bn20k03

| 101,9 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693

Pixel - 72 dpi

[illegible]

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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