



## BN 20-RZ-M16

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

## Data

### Ordering data

Product type description	BN 20-RZ-M16
Article number (order number)	101168090
EAN (European Article Number)	4030661220567
eCl@ss number, version 11.0	27-27-01-05
eCl@ss number, version 9.0	27-27-01-05
ETIM number, version 7.0	EC002544
ETIM number, version 6.0	EC002544

### General data

Standards	EN IEC 60947-5-1
Working principle	Magnetic drive
Housing construction form	rectangular
Enclosure material	Aluminium

Active area	Metal film
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Gross weight	290 g
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### General data - Features

Latching	Yes
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bias magnet	Yes
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Number of snap-in contacts	1
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### Mechanical data

Actuating panels	lateral
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Active area	lateral
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Actuating element	Magnet
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Mechanical life, minimum	1,000,000,000 Operations
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Repeat accuracy R	0.3 mm
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Actuating speed, maximum	18 m/s
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### Mechanical data - Switching distances according EN IEC 60947-5-3

Switching distance $S_n$	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
	BE 20N = 10 mm
	BE 20S = 10 mm

Note (Switching distance  $S_n$ )      Actuating distance up to 50 mm depending on version and actuating magnet

## Mechanical data - Connection technique

Termination      Screw terminals M20 x 1.5

## 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	-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

Design of control elements	Reed contacts
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## Scope of delivery

Scope of delivery	Actuators must be ordered separately.
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## Accessory

Recommendation (actuator)	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

## Note

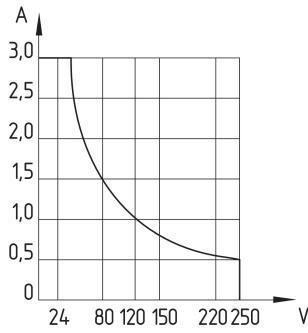
### Note (General)

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

### Product picture (catalogue individual photo)





ID: kbn32d01

| 110.5 kB | .jpg | 352.425 x 371.828 mm - 999 x 1054 px - 72 dpi

## EPLAN Produktgrafik



ID: 101168090

| 2.3 kB | .edz |

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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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