



## BN 20-2RZ-M16

- 2 reed contacts
- 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 20-2RZ-M16
Article number (order number)	101172893
EAN (European Article Number)	4030661301778
eCl@ss number, version 12.0	27-27-43-02
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

### Approvals - Standards

Certificates	cULus
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### General data

Standards	EN IEC 60947-5-1
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Working principle	Magnetic drive
Housing construction form	rectangular
Housing material	Aluminium
Active area	Metal film
Gross weight	298 g

### General data - Features

bias magnet	Yes
Number of snap-in contacts	2

### Mechanical data

Actuating panels	lateral
Active area	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
Actuating speed, maximum	18 m/s

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

Repeat accuracy R                      0.3 mm

## 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	-25 ... +90 °C
Resistant to vibration	50 g, on sine wave oscillation

### Electrical data

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
Maximum 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	Actuator 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: kbn20f01

| 569.4 kB | .jpg | 352.778 x 529.167 mm - 1000 x 1500 px - 72 dpi

| 45.1 kB | .png | 74.083 x 111.125 mm - 210 x 315 px - 72 dpi

| 32.8 kB | .jpg | 82.197 x 123.472 mm - 233 x 350 px - 72 dpi

