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Operating instructions. pages 1 to 2

Product description

The magnetic reed switch has been developed for situations in which minimal clearance is available. Despite its compact dimensions, its switching capacity is sufficient to switch a relay.

The NC or NO function depends on the actuating direction and the polarity of the actuating magnet. The actuators for the magnetic safety sensors must be ordered separately.

Ordering code

This operating instructions manual applies to the following types:

BN 80-11Z

| No. | Option | Description |
|-----|--------|--------------------|
| 1 | 01 | 1 NC |
| | 10 | 1 NO |
| | R | 1 bistable contact |

Technical data

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|--|---|--|--|
| Enclosure: | glass-fibre reinforced thermoplastic | | |
| Operating principle: | magnetic | | |
| Actuating magnet: | BP 6 S, BP 7 S, BP 10, BP 10 S, BP 15 S, | | |
| 2 x BP 15 S, BP 34 S, 2 x BP 34 S, BP 20 S, BP 20 S, | | | |
| BP 31 S, BP 11 S, BP 12 S (not included in delivery) | | | |
| Protection class: | IP67 to IEC 60529 | | |
| Ambient temperature: | | | |
| - Storage temperature: | −25 °C +75 °C | | |
| Electrical connection: | Cable LiYY 2 x 0.25 mm ² , 1 m | | |
| Switching voltage: | | | |
| - BN 80-RZ: | max. 200 VAC/DC | | |
| - BN 80-10Z/-01Z: | max. 250 VAC/DC | | |
| Switching current: | | | |
| - BN 80-RZ: | max. 1.5 A | | |
| - BN 80-10Z/-01Z: | max. 0.5 A | | |
| Switching capacity: | | | |
| - BN 80-RZ: | max. 30 VA. W | | |
| - BN 80-10Z/-01Z: | max. 10 VA, 8 W | | |
| Sparkover voltage: | > 450 VAC (50 Hz) | | |
| Switching time "Close": | max. 2 ms | | |
| Switching time "Open": | max. 0.07 ms | | |
| Bounce duration: | max. 0.5 ms | | |
| Mechanical life: | 100000000 operations | | |
| Electrical life: | 5,000,000 operations | | |
| Eroot four ino. | depending on load | | |
| Resistance to vibration: | 15 g on sine wave oscillation | | |
| nesistative to vibration. | 15 y on sine wave oscillation | | |



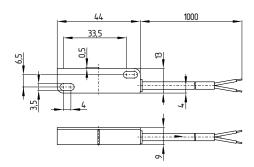
Further technical information can be found in the Schmersal catalogues or in the online catalogue on the Internet: www.schmersal.net.



The currently valid declaration of conformity can be downloaded from the internet at www.schmersal.net.

Dimensions (in mm)

Magnetic reed switches BN 80



Mounting

Actuating distance up to 60 mm depending on version and actuating magnet.



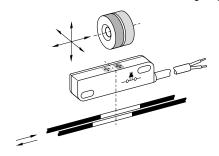
The user must observe the country-specific installation standards as well as all prevailing safety regulations and accident prevention rules.



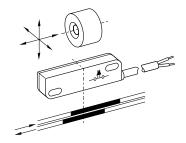
The electrical connection may only be carried out by authorised personnel in a de-energised condition.

Actuation and switching distances

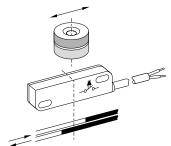
1 NC contact BN 80-01Z with N-S actuating magnet



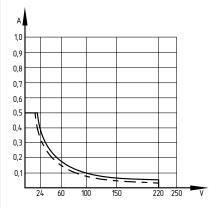
1 NO contact BN 80-10Z with N-S actuating magnet



1 bistable contact BN 80-RZ with N actuating magnet



Switching capacity



Switching distance

BN 80-01Z up to 20 mm BN 80-10Z up to 32 mm BN 80- RZ up to 60 mm

Disassembly and disposal

Disassembly

The switch must be disassembled in a de-energised condition only.

Disposal

The switch must be disposed of in an appropriate manner in accordance with the national prescriptions and legislations.

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