Datasheet - BN 12-10Z/1

Magnetic reed switch / BN 12







- Non-contact principle
- Actuation from side
- without bias magnet
- Long life
- · Metal enclosure
- Actuating distance up to 60 mm depending on actuating magnet and version
- Design Ø 10.7 mm
- · with central mounting
- · With pre-wired cable

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description

Article number

EAN code

BN 12-10Z/1

BN 12-10Z/1

Approval

Approval

Global Properties

Product name

Standards

Compliance with the Directives (Y/N) CE

suitable for elevators (Y/N)

Mounting

Active principle

Materials

- Material of the housings
- Material of the cable mantle

Housing construction form

Weight

Recommended actuator

BN 12

-

Yes No

central with threated flange M12 x 1

Magnetic drive

Metal film

LiYY

cylinder, thread

BP 10, 2 x BP 10, BP 15, 2 x BP 15, 2 x BP 15/2, BP 34, BP 20, BP 31,

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BP 11, BP 12, BP 21

Mechanical data

Design of electrical connection Cable
Cable length 1 m

Conductors 2 x 0,25 mm²

AWG-Number 23

Mechanical life min. 10.000.000 operations

Electrical lifetime 1.000.000 ... 10.000.000 operations

Actuating planes Actuation from side

Active area lateral

Switch distance S_n 5 mm ... 50 mm

BP 10 = 5 mm 2 x BP 10 = 17 mm BP 15 = 6 mm 2 x BP 15 = 17 mm 2 x BP 15/2 = 17 mm BP 34 = 15 ... 20 mm BP 20 = 20 mm BP 31 = 20 mm BP 11 = 20 mm BP 12 = 10 ... 30 mm

BP 21 = 25 ... 50 mm

- notice Actuating distance up to 50 mm depending on actuating magnet and

version

Type of actuation Magnet restistance to shock 30 g / 11 ms

Resistance to vibration 10 ... 55 Hz, Amplitude 1 mm

Latching (Y/N) No bias magnet (Y/N) No

Tightening torque for nuts max. 90 Ncm
Switching point accuracy ± 0,25 mm

Ambient conditions

Ambient temperature

- Min. environmental temperature -25 °C
- Max. environmental temperature +70 °C
Protection class IP67

Electrical data

Design of control element Opener (NC)

Number of shutters 1 piece

Number of openers 0 piece

Voltage type VAC/DC

Switch frequency

Dielectric strength 580

Switching voltage max. 200 VAC/DC

Switching current max. 1 A
Switching capacity max. 30 VA / W

Outputs

Design of control output

Reed contakts

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LED switching conditions display

LED switching conditions display (Y/N)

No

ATEX

Explosion protection categories for gases
Explosion protected category for dusts

None None

Dimensions

Dimensions of the sensor

Length of sensorDiameter of sensor

71 mm

10.7 mm

notice

The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets.

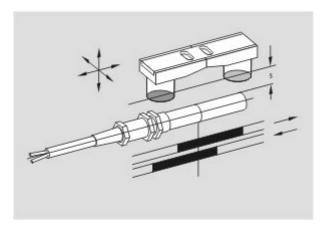
When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N). This does not apply to the bistable contact.

The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

Included in delivery

Actuators must be ordered separately.

Diagram



Note Diagram

⊖ positive break NC contact





O—___O Normally-open contact

o--t---o Normally-closed contact

Documents

Mounting and wiring instructions (de, en, fr) 104 kB, 03.08.2006

Code: m_bn1p01

Code: s_bn_p01_it

notice - Switch distance (fr) 29 kB, 12.04.2013

Code: s_bn_p01_fr

notice - Switch distance (en) 27 kB, 12.04.2013

Code: s_bn_p01_en

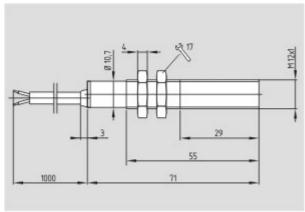
notice - Switch distance (de) 28 kB, 12.04.2013

Code: s_bn_p01_de

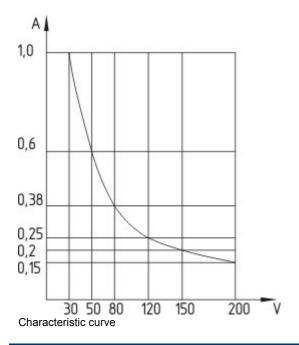
notice - Switch distance (es) 28 kB, 12.04.2013

Code: s_bn_p01_es

Images



Dimensional drawing (basic component)



System components

Actuator

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- thermoplastic enclosure
- · S-pole marked red
- N-pole marked green
- Suitable for mounting on ferrous material with a distance of 25 mm



101060163 - BP 15

- thermoplastic enclosure
- N-pole marked green
- · S-pole marked red
- Suitable for mounting on ferrous material with a distance of 18 mm



101060165 - BP 15/2

- Unenclosed
- · Polarity stamped in
- Suitable for mounting on ferrous material with a distance of 18 mm



101057531 - BP 10

- Unenclosed
- Colour coding of poles by lables

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 16.08.2014 - 04:29:00h Kasbase 2.2.18.F DBI

