Datasheet - BN 12-10Z/1

Magnetic reed switch / BN 12







- Actuation from side
- Non-contact principle
- · 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	BN 12-10Z/1
Article number	BN 12-10Z/1
EAN Code	
eCl@ss	27-27-01-04

Approval

Approval

Global Properties

Permanent light

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

BN 12

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Yes

No

central with threated flange M12 x 1 $\,$

Magnetic drive

Metal film

LiYY

cylinder, thread

Mechanical data

AWG-Number

Design of electrical connection Cable Cable length 1 $2 \times 0,25$

Mechanical life 10.000.000 operations

Electrical lifetime 1.000.000 ... 10.000.000 operations

Actuating planes Actuation from side

Active area | lateral | Switch distance | 5 ... 50 | BP 10 = 5 mm | 2 x BP 10 = 17

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

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version

Type of actuation Magnet restistance to shock 30 / 11

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

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +70
 Protection class

Electrical data

Design of control element Opener (NC)

Number of shutters 1
Number of openers 0

Voltage type

Switch frequency

Dielectric strength 580
Switching voltage 200
Switching current 1 A
Switching capacity 30 /

Outputs

Design of control output

Reed contakts

LED switching conditions display

LED switching conditions display (Y/N)

No

None

None

ATEX

Explosion protection categories for gases
Explosion protected category for dusts

Dimensions

Dimensions of the sensor

- Length of sensor- Diameter of sensor10.7

notice

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

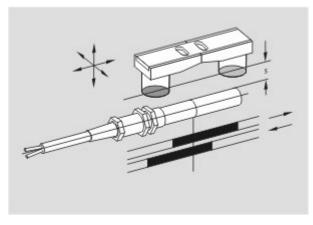
When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N). This does not apply to the bistable contact.

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

opositive break NC contact





o-__- Normally-open contact

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

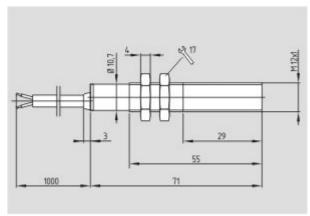
notice - Switch distance (de) 28 kB, 12.04.2013

Code: s_bn_p01_de

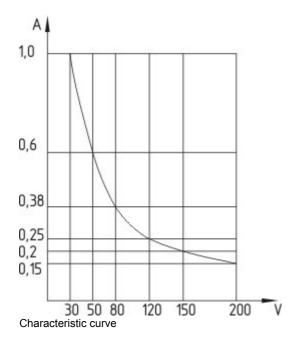
notice - Switch distance (es) 28 kB, 12.04.2013

Code: s_bn_p01_es

Images



Dimensional drawing (basic component)



System components

Actuator



- 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 13.02.2019 - 13:10:41h Kasbase 3.3.0.F.64I