Datasheet - BN 120L-10Z/V

Magnetic reed switch / BN 120

☑ Preferred typ





- Long life
 - Thermoplastic enclosure
 Actuating distance up to 60 mm depending on actuating magnet and version
 - Design Ø 10.7 mm

Actuation from frontNon-contact principlewith bias magnet

- · 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 120L-10Z/V

 Article number
 101210880

 EAN Code
 4030661388472

 eCl@ss
 27-27-01-04

Approval

Approval

Global Properties

Permanent light

Standards

Compliance with the Directives (Y/N) €€

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 120L

Yes

Yes

central with threated flange M12 x 1

Magnetic drive

Plastic, glass-fibre reinforced thermoplastic

LiYY

cylinder, thread

56

BP 10 S, 2 x BP 10 S, BP 15 S, BP 34 S, BP 20 S, BP 31 S, BP 11 S, 2 x

- Lift switchgear

BP 10, 2 x BP 10, BP 15, BP 34

Mechanical data

Cable Design of electrical connection Cable length 2

Conductors 2 x 0,25

AWG-Number

Mechanical life 10.000.000 operations

Electrical lifetime 1.000.000 ... 10.000.000 operations

Actuating planes front side

Switch distance 5 ... 55

BP 10S = 5 mm 2 x BP 10S = 10 mm BP 15S = 6 mm BP 34S = 20 mm BP 20S = 15 mm BP 31S = 15 mm

BP 11S = 5 mm 2 x BP 11S = 15 mm BP 12S = 10 mm 2 x BP 12S = 25 mm

BP 21S = 30 mm 2 x BP 21S = 20 ... 55 mm

BP 22S = 25 mm

2 x BP 22S = 15 ... 55 mm

BE 20 S = 6 mm

- notice Actuating distance up to 55 mm depending on actuating magnet and

version

The specifications with regard to the switching distances apply to the actuation of the individually mounted devices without ferromagnetic

influence. Any change of the

distance, positive either negative, is possible due to ferromagnetic interference. When multiple actuating magnets are used, the mutual

interference must be observed.

Type of actuation Magnet 30 / 11 restistance to shock

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

Latching (Y/N) No bias magnet (Y/N) Yes Tightening torque for nuts 17 90 Switching point accuracy ± 0,25 mm

Ambient conditions

Ambient temperature

-25 - Min. environmental temperature - Max. environmental temperature +70

Protection class IP67 to IEC/EN 60529

Electrical data

Design of control element Normally open contact (NO)

Number of shutters Number of openers 0 Dielectric strength 580 200

Switching voltage

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	
ATEX		
Explosion protection categories for gases Explosion protected category for dusts	None None	
Dimensions		
Dimensions of the sensor		
- Length of sensor	102	

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.

10.7

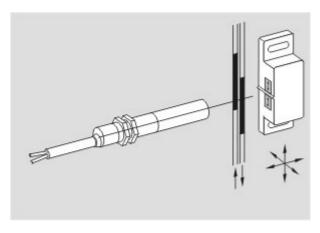
The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

Included in delivery

- Diameter of sensor

Actuators must be ordered separately.

Diagram



Note Diagram

opositive break NC contact

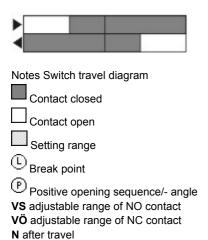




o-__- Normally-open contact

o-t---o Normally-closed contact

Switch travel diagram



Documents

Mounting and wiring instructions (de, en, fr) 103 kB, 03.08.2006

Code: m_bn1p02

notice - Switch distance (it) 27 kB, 12.04.2013

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

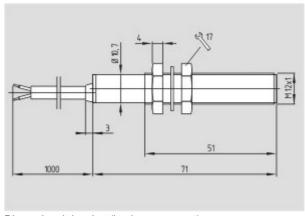
notice - Switch distance (de) 28 kB, 12.04.2013

Code: s_bn_p01_de

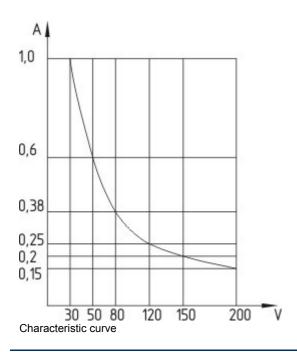
notice - Switch distance (es) 28 kB, 12.04.2013

Code: s_bn_p01_es

Images



Dimensional drawing (basic component)



System components

Actuator



101057553 - BP 34

- 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