Datasheet - BN 120L-01Z/V

Magnetic reed switch / BN 120







(Minor differences between the printed image and the original product may

- · Actuation from front
- Non-contact principle
- with bias magnet
- Long life
- · Thermoplastic 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

Ordering details

exist!)

 Product type description
 BN 120L-01Z/V

 Article number
 101210881

 EAN Code
 4030661388458

 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

Design of electrical connection Cable 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 Actuating speed 18

Switching point accuracy ± 0,25 mm

Ambient conditions

Ambient temperature

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

Protection class IP67 to IEC/EN 60529

Electrical data

Opener (NC) Design of control element

Number of shutters Number of openers 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
ATEX	
Explosion protection categories for gases	None
Explosion protected category for dusts	None
Dimensions	
Dimensions of the sensor	
- Length of sensor	102
- Diameter of sensor	10.7

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.

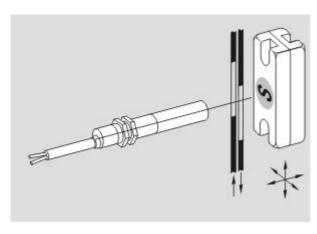
The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

Included in delivery

Actuators must be ordered separately.

Diagram

notice



Note Diagram

positive break NC contact





o____o Normally-open contact

Switch travel diagram

Notes Switch travel	diagrar	n	
Contact closed			
Contact open			
Setting range			
Break point			
Positive opening	g seque	nce/-	angle
VS adjustable range	of NO	conta	ct
VÖ adjustable range	e of NC	conta	act

Documents

N after travel

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

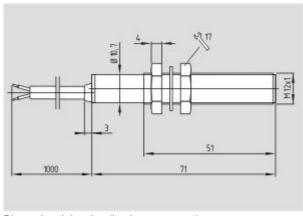
notice - Switch distance (de) 28 kB, 12.04.2013

Code: s_bn_p01_de

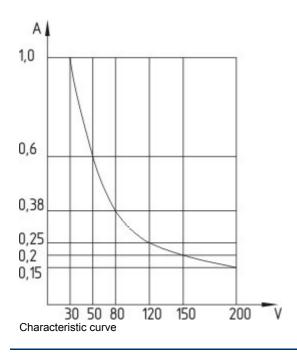
notice - Switch distance (es) 28 kB, 12.04.2013

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