Datasheet - BN 120L-RZ/V

Magnetic reed switch / BN 120







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

- · 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

 Product type description
 BN 120L-RZ/V

 Article number
 101210882

 EAN Code
 4030661388434

 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

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Yes Yes

central with threated flange M12 x 1

Magnetic drive

Plastic, glass-fibre reinforced thermoplastic

LiYY

cylinder, thread

56

2 x BP 10, BP 34, BP 20, BP 31, BP 11, BP 12, BP 21, BP 22 N, BP 22 S,

- Lift switchgear

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

Mechanical data

AWG-Number

Mechanical life 10.000.000 operations

Electrical lifetime 1.000.000 ... 10.000.000 operations

Actuating planes front side Switch distance 3 ... 45

2 x BP 10 = 3 mm BP 34 = 15 mm BP 20 = 10 mm BP 31 = 10 mm BP 11 = 15 mm BP 12 = 20 mm BP 21 = 45 mm BP 22N = 35 mm BP 22S = 35 mm BE 20 = 10 mm

- notice Actuating distance up to 45 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 restistance to shock 30 / 11

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

Latching (Y/N)Yesbias magnet (Y/N)YesTightening torque for nuts17 90Actuating speed18

Switching point accuracy \pm 0,25 mm

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +70

Protection class IP67 to IEC/EN 60529

Electrical data

Design of control element bistable contact

Number of snap-in contacts 1

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.

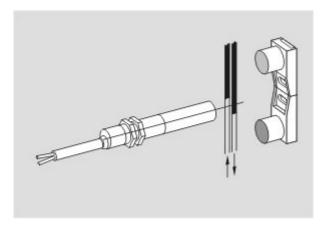
The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

Included in delivery

Actuators must be ordered separately.

Diagram

notice



Note Diagram

opositive break NC contact





o-__-o Normally-open contact

o-t---o Normally-closed contact

Switch travel diagram



Notes Switch travel diagram

Contact closed

Contact open

Setting range

(L) Break point

Positive opening sequence/- angle

VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

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

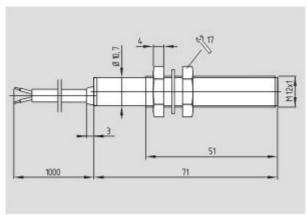
notice - Switch distance (de) 28 kB, 12.04.2013

Code: s_bn_p01_de

notice - Switch distance (es) 28 kB, 12.04.2013

Code: s_bn_p01_es

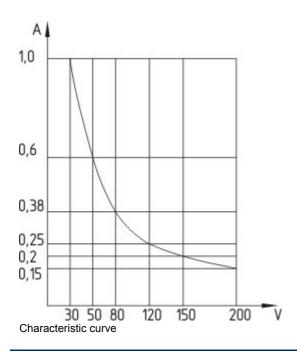
Images



Dimensional drawing (basic component)



Switch travel diagram



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