Datasheet - BN 650-10Z

Magnetic reed switch / BN 650







- · With pre-wired cable
- · Non-contact principle
- Actuation from side
- · Long life
- · with bias magnet
- Construction form Ø 13 mm
- Thermoplastic enclosure
- Actuating distance up to 60 mm depending on actuating magnet and version
- · with central mounting

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

Ordering details

Product type description BN 650-10Z
Article number 101187273
EAN code 4030661335728

Approval

Approval

Global Properties

Product name

Standards

Compliance with the Directives (Y/N) C
suitable for elevators (Y/N)

suitable for elevators (1/14

Mounting

Active principle

Materials

- Material of the housings
- Material of the cable mantle

Housing construction form

Weight

Recommended actuator

BN 650

-

Yes Yes

central with threated flange

Magnetic drive

Plastic, glass-fibre reinforced thermoplastic

LiYY

cylinder smooth

65 g

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

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

- Lift switchgear

Mechanical data

Design of electrical connection Cable length

Conductors

AWG-Number

Mechanical life Electrical lifetime

Switching frequency

Actuating planes Switch distance Sn

- notice

Type of actuation restistance to shock

Resistance to vibration

Bounce duration Latching (Y/N) bias magnet (Y/N)

Tightening torque for nuts Actuating speed Switching point accuracy

Ambient temperature

- Max. environmental temperature

Cable

1 m

2 x 0,25 mm²

min. 100.000.000 operations

1.000.000 ... 10.000.000 operations

max. 300/s

Actuation from side 5 mm ... 50 mm

BP 10 = 5 mm 2 x BP 10 = 17 mm BP 15 = 6 mm 2 x BP 15 = 17mm 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

Actuating distance up to 50 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.

30 g / 11 ms

10 ... 55 Hz, Amplitude 1 mm

0,15 ms No

Magnet

Yes

max. 18 m/s ± 0.25 mm

Ambient conditions

- Min. environmental temperature

Protection class

-25 °C

+70 °C

IP67 to IEC/EN 60529

Electrical data

Number of shutters

Design of control element

Number of openers Switching time - Close Switching time - Open

Switch frequency

Normally open contact (NO)

1 piece 0 piece 0,35 ms

< 300 Hz

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Dielectric strength Switching voltage

Switching current Switching capacity 580 V

max. 200 VAC/DC

max. 1 A

max. 30 VA / W

Outputs

Design of control output

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

103 mm

- Diameter of sensor

13 mm

notice

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

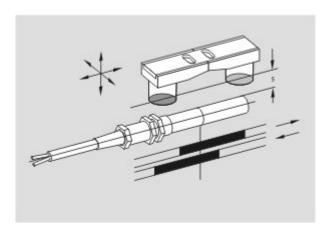
When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N).

This does not apply to the bistable contact.

Included in delivery

Actuators must be ordered separately.

Diagram



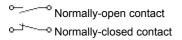
Note Diagram

opositive break NC contact



no active

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Switch travel diagram

Notes Switch travel	diagra	m	
Contact closed			
Contact open			
Setting range			
Break point			
Positive opening	g seque	ence/- angle	Э
VS adjustable range	e of NO	contact	

Documents

N after travel

Mounting and wiring instructions (de, en, fr) 99 kB, 11.07.2006

Code: m_bn6p01

Declaration of conformity (en) 118 kB, 26.02.2014

Code: __bn_p01_en

Declaration of conformity (de) 188 kB, 10.07.2012

Code: __bn_p01

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

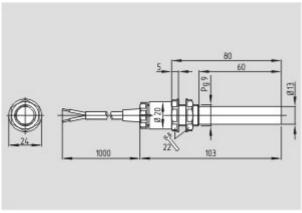
notice - Switch distance (de) 28 kB, 12.04.2013

Code: s_bn_p01_de

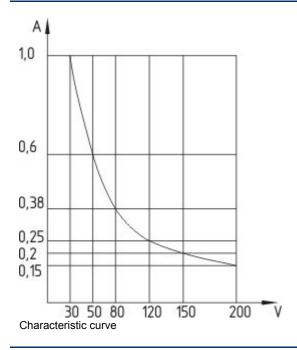
notice - Switch distance (es) 28 kB, 12.04.2013

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

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 20.08.2014 - 00:44:23h Kasbase 2.2.18.F DBI

Image et=sS