Datasheet - BN 32-10

Magnetic reed switch / BN 32





- Non-contact principle
- 1 Reed contakts
- Long life
- Actuating surface and direction of actuation marked by switch symbol
- 85 mm x 26 mm x 24 mm
- Thermoplastic enclosure
- Actuating distance up to 55 mm depending on actuating magnet and version
- · Spade connector

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

Ordering details

Product type description BN 32-10
Article number 101057228
EAN code 4030661025124

Approval

Approval

Global Properties

Product name BN 32 Standards -

Compliance with the Directives (Y/N) CE

Suitable for elevators (Y/N)

No

Active principle Magnetic drive Materials

Material of the housings
 Material of the active surface
 Plastic, glass-fibre reinforced thermoplastic
 Plastic

- Material of the active surface Plasti
Housing construction form Block
Weight 60 g

Recommended actuator BP 10, 2 x BP 10, BP 15, 2 x BP 15, 2 x BP 15/2, BP 34, BP 20, BP 31, BP 11, BP 12, BP 21, BE 20

lateral

Mechanical data

Design of electrical connection Flat plug-in connector 4.8 mm

Mechanical life 1.000.000.e+9 operations

Electrical lifetime 1.000.000 ... 1.000.000.e+9 operations

Switching frequency max. 300/s
Actuating planes Actuation from side

Active area

Switch distance S_n 5 mm ... 40 mm BP 10 = 5 mm

2 x BP 10 = 12 mm BP 15 = 6 mm

2 x BP 15 = 6 mm

2 x BP 15/2 = 12mm

BP 34 = 15 mm BP 20 = 15 mm

BP 31 = 15 mm

BP 11 = 5 ... 15 mm BP 12 = 10 ... 25 mm

BP 21 = 20 ... 40 mm

BE 20 = 15 mm

Actuating distance up to 40 mm depending on actuating magnet and

ersion

Type of actuation Magnet

restistance to shock -

resistant to vibration 15 g, on sine wave oscillation

Bounce duration 0,3 ms ... 0,6 ms

Latching (Y/N)

Actuating speed max. 18 m/s Switching point accuracy \pm 0,25 mm

Ambient conditions

- notice

Ambient temperature

- Min. environmental temperature -25 °C

- Max. environmental temperature +90 °C

Protection class IP67

Electrical data

Design of control element Normally open contact (NO)

Number of shutters 1 piece
Number of openers 0 piece

Switching time - Close 0,3 ms ... 1.5 ms

Switching time - Open

Voltage type VAC

Dielectric strength > 600 VAC (50 Hz)
Switching voltage max. 250 VAC
Switching current max. 3 A
Switching capacity max. 120 VA / W

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

- Width of sensor

85 mm

- Height of sensor

26 mm

- Length of sensor

24 mm

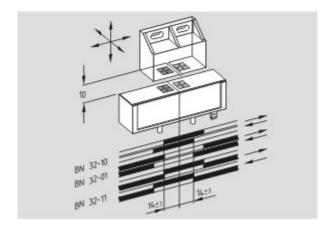
notice

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

Included in delivery

Actuators must be ordered separately.

Diagram



Note Diagram

positive break NC contact



no active

o-___o Normally-open contact

o--^{±-}---o Normally-closed contact

Documents

Declaration of conformity (de) 188 kB, 10.07.2012

Code: __bn_p01

notice - Switch distance (de) 36 kB, 07.08.2009

Code: s_bnsp01

notice - Switch distance (nl) 39 kB, 07.08.2009

Code: s_bnsp04

notice - Switch distance (en) 42 kB, 07.08.2009

Code: s_bnsp02

notice - Switch distance (fr) 41 kB, 07.08.2009

Code: s_bnsp03

notice - Switch distance (pt) 39 kB, 07.08.2009

Code: s_bnsp10

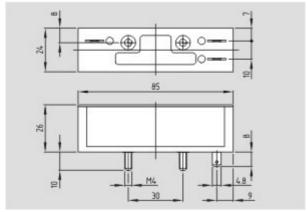
notice - Switch distance (it) 40 kB, 07.08.2009

Code: s_bnsp05

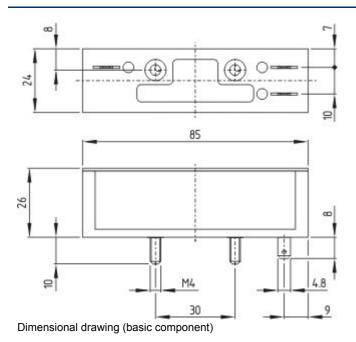
notice - Switch distance (es) 38 kB, 07.08.2009

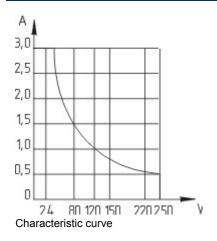
Code: s_bnsp09

Images

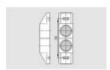


Dimensional drawing (basic component)



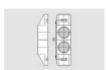


Actuator



101059927 - BP 2x21 S

- · Al-metal housing
- · S-pole marked red
- Suitable for mounting on ferrous material



101059928 - BP 2x21 N

- · Al-metal housing
- N-pole marked green
- · Suitable for mounting on ferrous material



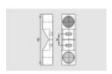
101057534 - BP 21 S

- · Al-metal housing
- S-pole marked red
- Suitable for mounting on ferrous material



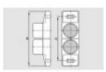
101057536 - BP 21 N

- Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material



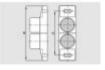
101059921 - BP 21

- · Al-metal housing
- S-pole marked red
- N-pole marked green
- Suitable for mounting on ferrous material



101059926 - BP 2x12 S

- · Al-metal housing
- · S-pole marked red
- Suitable for mounting on ferrous material

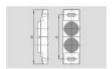


101059925 - BP 2x12 N

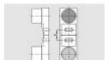
- · Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material

101059917 - BP 12 N

· Al-metal housing

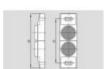


- N-pole marked green
- Suitable for mounting on ferrous material



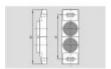
101059916 - BP 12

- · Al-metal housing
- · S-pole marked red
- N-pole marked green
- Suitable for mounting on ferrous material



101059930 - BP 2x11 S

- Al-metal housing
- · S-pole marked red
- · Suitable for mounting on ferrous material



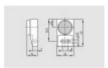
101059929 - BP 2x11 N

- Al-metal housing
- N-pole marked green
- · Suitable for mounting on ferrous material



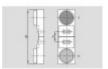
101057533 - BP 11 S

- Al-metal housing
- S-pole marked red
- Suitable for mounting on ferrous material



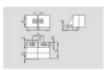
101059923 - BP 11 N

- Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material



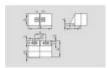
101059922 - BP 11

- Al-metal housing
- · S-pole marked red
- N-pole marked green
- Suitable for mounting on ferrous material



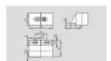
101057521 - BP 31 S

- thermoplastic enclosure
- S-pole marked red
- Suitable for mounting on ferrous material with a distance of 20 mm



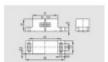
101057520 - BP 31 N

- · thermoplastic enclosure
- · N-pole marked green
- Suitable for mounting on ferrous material with a distance of 20 mm



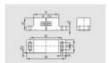
101057530 - BP 31

- thermoplastic enclosure
- · S-pole marked red
- · N-pole marked green
- Suitable for mounting on ferrous material with a distance of 20 mm



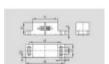
101057541 - BP 20 S

- Al-metal housing
- · S-pole marked red
- Suitable for mounting on ferrous material with a distance of 20 mm



101057538 - BP 20 N

- Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material with a distance of 20 mm



101057549 - BP 20

- · Al-metal housing
- S-pole marked red
- N-pole marked green
- Suitable for mounting on ferrous material with a distance of 20 mm



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



101060165 - BP 15/2

- Unenclosed
- Polarity stamped in
- Suitable for mounting on ferrous material with a distance of 18 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







- 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 27.05.2013 - 16:25:48h Kasbase 2.2.17.F DBI

