#### Datasheet - BN 325-R-1239

Magnetic reed switch / BN 325

X Preferred typ





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

- Flat plug-in connector 4.8 mm and 2 shielding plates
- · Non-contact principle
- Actuation from front
- 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
- · Spade connector

## **Ordering details**

Product type description BN 325-R-1239
Article number 101147090
EAN code 4030661141282

## **Approval**

Standards

Materials

Approval

#### **Global Properties**

Product name BN 325

Compliance with the Directives (Y/N) € € Yes

suitable for elevators (Y/N)

Yes

Mounting rear with 2 Threaded bolt
Active principle Magnetic drive

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

Housing construction form rectangular, flat

Weight

Recommended actuator

BP 10 N, BP 10 S, 2 x BP 10 N, 2 x BP 10 N, BP 15 N, BP 15 S, 2 x BP

15/2 N, 2 x BP 15/2 S, BP 34 N, BP 34 S, BP 20 N, BP 20 S, BP 31 N, BP

31 S, BP 11 N, BP 11 S, 2 x BP 11 N, 2 x BP 11 S, BP 12 N, BP 12 S, 2 x

BP 12 N, 2 x BP 12 S, BP 21 N, BP 21 S, 2 x BP 21 N, 2 x BP 21 S, BE

45 g

20, BE 20 N(S) ST 24VDC, BE 20 N(S) 48VDC
- Lift switchgear
BP 10, 2 x BP 10, 2 x BP 15/2, BP 15, BP 34

#### Mechanical data

Design of electrical connection Flat plug-in connector 4.8 mm and 2 shielding plates

Mechanical life 1.000.000.e+9 operations

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

Actuating planes front side Switch distance  $S_n$  5 mm ... 55 mm

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BP 10N = 10 mm BP 10S = 10 mm 2 x BP 10N = 15 mm 2 x BP 10S = 15 mm BP 15N = 12 mm BP 15S = 12 mm 2 x BP 15/2N = 17 mm 2 x BP 15/2S = 17mm BP 34N = 10 ... 25mm BP 34S = 10 ... 25 mm BP 20N = 5 ... 20 mm BP 20S = 5 ... 20 mm BP 31N = 5 ... 20 mm BP 31S = 5 ... 20 mm BP 11N = 10 mm BP 11S = 10 mm 2 x BP 11N = 20 mm 2 x BP 11S = 20 mm BP 12N = 15 mm BP 12S = 15 mm 2 x BP 12N = 10 ... 25 mm BP 21N = 15 ... 40 mm

2 x BP 12S = 10 ... 25 mm BP 21S = 15 ... 40 mm 2 x BP 21N = 20 ... 55 mm 2 x BP 21S = 20 ... 55 mm

BE 20 = 20 mm BE 20N = 15 mm BE 20S = 15 mm

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.

Magnet 50 g / 11 ms

10 ... 55 Hz, Amplitude 1 mm

0,3 ms ... 0,6 ms

Yes

max. 18 m/s ± 0,25 mm

-25 °C +70 °C

IP40

## Type of actuation

- notice

restistance to shock

Resistance to vibration

Bounce duration

Latching (Y/N)

Actuating speed Switching point accuracy

## **Ambient conditions**

## Ambient temperature

- Min. environmental temperature

- Max. environmental temperature

Protection class

# **Electrical data**

Design of control element

Number of snap-in contacts

Switching time - Close Switching time - Open Switch frequency

Dielectric strength Switching voltage Switching current

bistable contact

max. 1.5 ms max. 0,5 ms < 300 Hz

> 600 VAC (50 Hz) max. 250 VAC max. 3 A

max. 120 VA

**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. 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. 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**

Switching capacity

Operating instructions and Declaration of conformity (fr) 344 kB, 28.04.2014

Code: mrl\_bn325-r-g\_fr

Operating instructions and Declaration of conformity (jp) 292 kB, 12.06.2014

Code: mrl\_bn325-r-g\_jp

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Operating instructions and Declaration of conformity (pl) 381 kB, 24.03.2014

Code: mrl\_bn325-r-g\_pl

Operating instructions and Declaration of conformity (it) 192 kB, 19.02.2014

Code: mrl\_bn325-r-g\_it

Operating instructions and Declaration of conformity (nl) 337 kB, 24.03.2014

Code: mrl\_bn325-r-g\_nl

Mounting and wiring instructions (de, en, fr) 61 kB, 13.06.2008

Code: m\_n30p01

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 (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

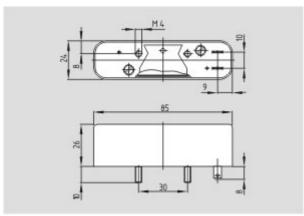
notice - Switch distance (it) 40 kB, 07.08.2009

Code: s\_bnsp05

notice - Switch distance (es) 38 kB, 07.08.2009

Code: s\_bnsp09

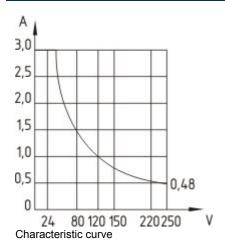
#### **Images**

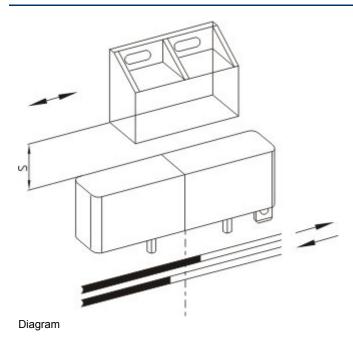


Dimensional drawing (basic component)



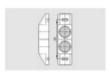
Switch travel diagram





## **System components**

## **Actuator**

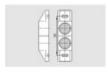


## 101059927 - BP 2x21 S

- 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





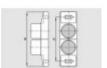
#### 101057534 - BP 21 S

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



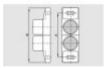
#### 101057536 - BP 21 N

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



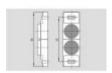
#### 101059926 - BP 2x12 S

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



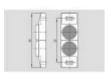
#### 101059925 - BP 2x12 N

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



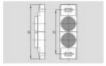
#### 101059917 - BP 12 N

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



#### 101059930 - BP 2x11 S

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

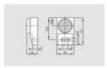


#### 101059929 - BP 2x11 N

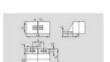
- · Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material

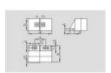
#### 101057533 - BP 11 S

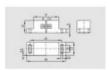
- Al-metal housing
- S-pole marked red
- Suitable for mounting on ferrous material

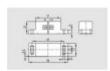




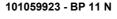












- Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material

#### 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

## 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

## 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



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## 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 19.08.2014 - 05:18:41h Kasbase 2.2.18.F DBI

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