## Datasheet - BN 325-R

Magnetic reed switch / BN 325







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

- Flat plug-in connector and 1 shielding plate
- · Non-contact principle
- 1 Reed contakts
- · Actuation from front
- · 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

 Article number
 101147009

 EAN Code
 4030661140933

 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 Housing construction form

Weight

Recommended actuator

BN 325

-

Yes

Yes

rear with 2 Threaded bolt

Magnetic drive

Plastic, glass-fibre reinforced thermoplastic

rectangular, flat

35

BP 10 N, BP 10 S, 2 x BP 10 N, 2 x BP 10 S, 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, BE

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

- Lift switchgear

#### **Mechanical data**

Design of electrical connection

Mechanical life

Flat plug-in connector 4.8 mm and 1 shielding plate

1.000.000.000 operations

Electrical lifetime 1.000.000 ... 1.000.000.000 operations Actuating planes front side Switch distance 5 ... 55 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 2 x BP 12S = 10 ... 25 mm BP 21N = 15 ... 40 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 - 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 restistance to shock 50 / 11 Resistance to vibration 10 ... 55 HZ, Amplitude 1 mm Bounce duration 0,3 ... 0,6 Latching (Y/N) Yes Actuating speed 18 Switching point accuracy ± 0,25 mm **Ambient conditions** Ambient temperature -25 - Min. environmental temperature - Max. environmental temperature +70 Protection class IP40 **Electrical data** Design of control element bistable contact

1

1.5

0,5

< 300

> 600 (50)

Number of snap-in contacts

Switching time - Close

Switching time - Open

Switch frequency

Dielectric strength

Switching voltage	250
Switching current	3 A
Switching capacity	120
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
- Height of sensor	26
- Length of sensor	24
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.	
Switch travel diagram	
Notes Switch travel diagram	
Contact closed	
Contact open	
Setting range	
Ereak point	
P	
Positive opening sequence/- angle  VS adjustable range of NO contact	
VÖ adjustable range of NC contact	
N after travel	
Documents	

#### Documents

Operating instructions and Declaration of conformity (en) 224 kB, 22.11.2017

Code: mrl\_bn325-r-g\_en

Code: mrl\_bn325-r-g\_fr

Operating instructions and Declaration of conformity (jp) 308 kB, 03.11.2015

Code: mrl\_bn325-r-g\_jp

Operating instructions and Declaration of conformity (pl) 259 kB, 17.05.2018

Code: mrl\_bn325-r-g\_pl

Operating instructions and Declaration of conformity (pt) 227 kB, 09.01.2018

Code: mrl\_bn325-r-g\_pt

Operating instructions and Declaration of conformity (it) 223 kB, 09.01.2018

Code: mrl\_bn325-r-g\_it

Operating instructions and Declaration of conformity (es) 192 kB, 10.09.2014

Code: mrl\_bn325-r-g\_es

Operating instructions and Declaration of conformity (es) 226 kB, 21.12.2017

Code: mrl\_bn325-r-g\_es

Operating instructions and Declaration of conformity (nl) 221 kB, 08.08.2018

Code: mrl\_bn325-r-g\_nl

Operating instructions and Declaration of conformity (de) 195 kB, 22.11.2017

Code: mrl\_bn325-r-g\_de

Declaration of conformity (en) 186 kB, 12.07.2018

Code: \_\_bn\_p01\_en

Declaration of conformity (de) 102 kB, 08.06.2016

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

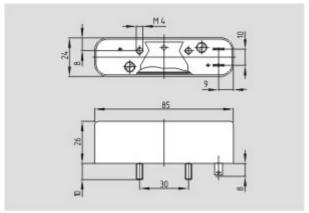
Code: s\_bnsp10

notice - Switch distance (it) 40 kB, 07.08.2009

Code: s\_bnsp05

notice - Switch distance (es) 38 kB, 07.08.2009

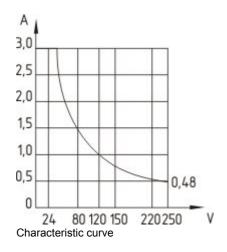
Code: s\_bnsp09

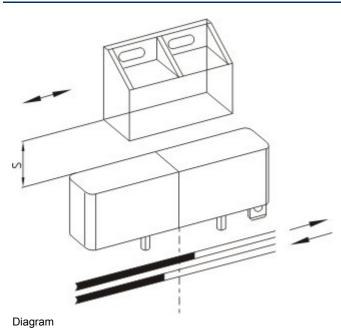


Dimensional drawing (basic component)



Switch travel diagram





# **System components**

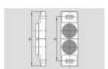


- · -metal housing
- · S-pole marked red
- Suitable for mounting on ferrous material



#### 101057536 - BP 21 N

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



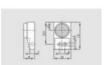
#### 101059917 - BP 12 N

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



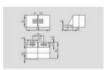
#### 101057533 - BP 11 S

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



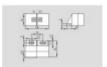
# 101059923 - BP 11 N

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



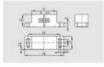
## 101057521 - BP 31 S

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



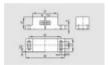
## 101057520 - BP 31 N

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



## 101057541 - BP 20 S

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



#### 101057538 - BP 20 N

- · -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



#### 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 13.02.2019 - 13:11:50h Kasbase 3.3.0.F.64I