Datasheet - BN 325-R-1279

Magnetic reed switch / BN 325

 ☒ Preferred typ





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

- · 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
- · Spade connector
- · Cable output left and 2 shielding plates
- · Actuation from front

Ordering details

Product type description BN 325-R-1279 Article number 101147091 EAN code 4030661141299

Approval

Approval

Global Properties

Product name

Compliance with the Directives (Y/N) $\zeta \in$ Yes

suitable for elevators (Y/N) Mounting

Active principle

Standards

- Material of the housings

Housing construction form

Weight

Materials

Recommended actuator

BN 325

Yes

rear with 2 Threaded bolt

Magnetic drive

Plastic, glass-fibre reinforced thermoplastic

rectangular, flat

98 g

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, $2 \times BP$ 11 N, $2 \times BP$ 11 S, BP 12 N, BP 12 S, $2 \times BP$ 11 S, BP 12 N, BP 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

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

Cable length

Mechanical life

Electrical lifetime

Actuating planes

Cable output left and 2 shielding plates

1 m

1.000.000.e+9 operations

1.000.000 ... 1.000.000.e+9 operations

front side

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Switch distance Sn

5 mm ... 55 mm 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

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

−25 °C +70 °C

IP67

max. 18 m/s ± 0,25 mm

- notice

Type of actuation 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 bistable contact

1

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

> 600 VAC (50 Hz) max. 250 VAC

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max. 3 A

max. 120 VA

Switching current

Switching capacity

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 switch is to be mounted on iron with a non-magnetic included in delivery	on of actuation, the actuating magnets and the polarity of the actuating magnets. layer of at least 20 mm.
Actuators must be ordered separately.	
Switch travel diagram	
Notes Switch travel diagram Contact closed	
Contact open	
Trans.	
Setting range	
Break point	
Positive opening sequence/- angle VS adjustable range of NO contact	
VÖ adjustable range of NC contact	
N after travel	
Documents	

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

Code: mrl_bn325-r-g_fr

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

Code: mrl_bn325-r-g_jp

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

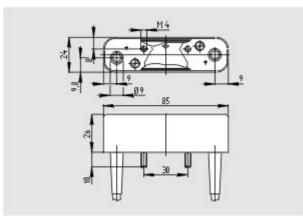
notice - Switch distance (it) 40 kB, 07.08.2009

Code: s_bnsp05

notice - Switch distance (es) 38 kB, 07.08.2009

Code: s_bnsp09

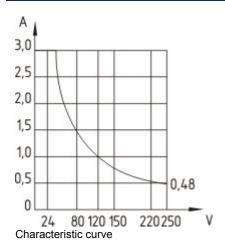
Images

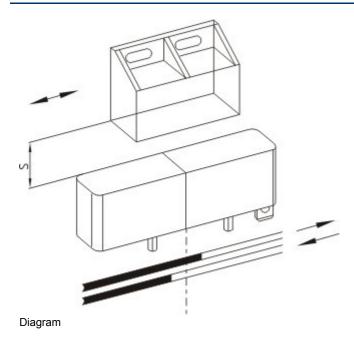


Dimensional drawing (basic component)



Switch travel diagram





System components

Actuator

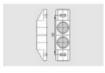


101059927 - BP 2x21 S

- 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





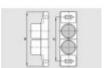
101057534 - BP 21 S

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



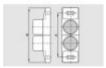
101057536 - BP 21 N

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



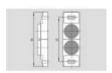
101059926 - BP 2x12 S

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



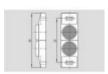
101059925 - BP 2x12 N

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



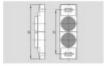
101059917 - BP 12 N

- 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

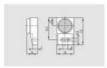


101059929 - BP 2x11 N

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

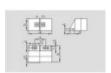
101057533 - BP 11 S

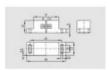
- Al-metal housing
- S-pole marked red
- Suitable for mounting on ferrous material

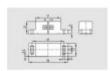




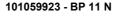












- Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material

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 - 05:19:10h Kasbase 2.2.18.F DBI

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