19.08.2014
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Datasheet - BN 325-RG-1279

Magnetic reed switch / BN 325

(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-RG-1279
Article number	101147106
EAN code	4030661141442

Approval

Approval	-

Global Properties

Product name	BN 325
Standards	-
Compliance with the Directives (Y/N) CE	Yes
suitable for elevators (Y/N)	Yes
Mounting	rear with 2 Threaded bolt
Active principle	Magnetic drive
Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic
Housing construction form	rectangular, flat
Weight	94 g
Recommended actuator	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, 2 x BP 21 N, 2 x BP 21 S, BE 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	Cable output left and 2 shielding plates with LED
Cable length	1 m
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 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 g / 11 ms
Resistance to vibration	10 … 55 Hz, Amplitude 1 mm
Bounce duration	0,3 ms … 0,6 ms
Latching (Y/N)	Yes
Actuating speed	max. 18 m/s
Switching point accuracy	± 0,25 mm

Ambient conditions

Ambient temperature	
- Min. environmental temperature	−25 °C
- Max. environmental temperature	+70 °C
Protection class	IP67

Electrical data

Design of control element	bistable contact
Number of snap-in contacts	1
Switching time - Close	max. 1.5 ms
Switching time - Open	max. 0,5 ms
Switch frequency	< 300 Hz
Dielectric strength	> 600 VAC (50 Hz)
Switching voltage	max. 250 VAC
Switching current	max. 3 A

Switching capacity	max. 120 VA

Outputs

Design of control output	Reed contakts

LED switching conditions display

LED switching conditions display (Y/N)	Yes

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

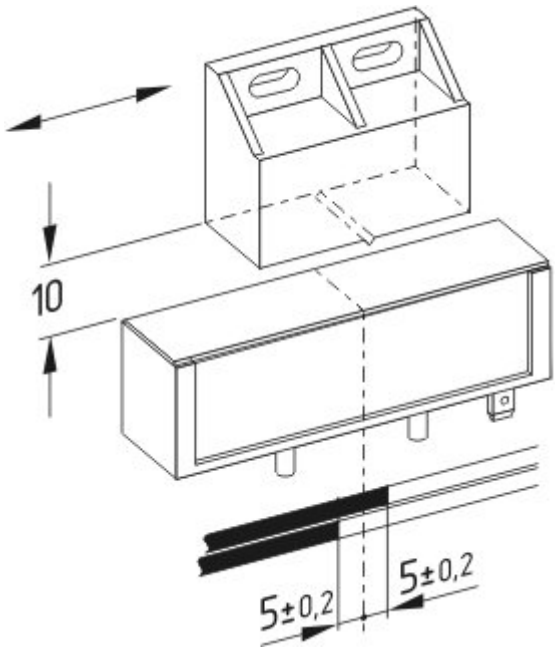
notice

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.

Diagram



Note Diagram

⊖ positive break NC contact

 active

 no active

 Normally-open contact

 Normally-closed contact

Documents

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

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

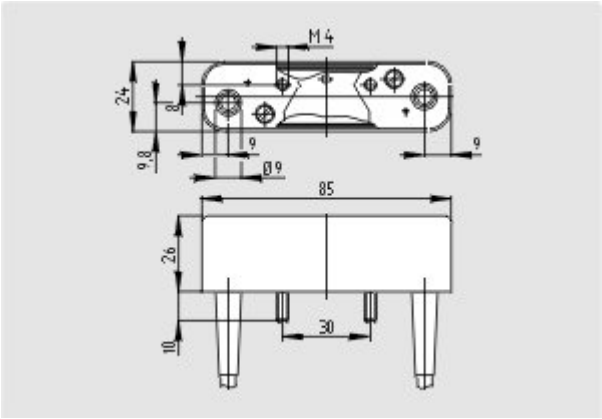
notice - Switch distance (fr) 41 kB, 07.08.2009
Code: s_bnsp03

notice - Switch distance (pt) 39 kB, 07.08.2009
Code: s_bnsp10

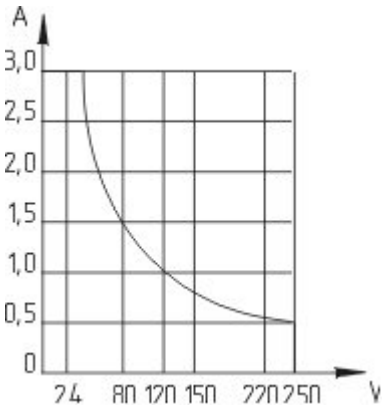
notice - Switch distance (it) 40 kB, 07.08.2009
Code: s_bnsp05

notice - Switch distance (es) 38 kB, 07.08.2009
Code: s_bnsp09

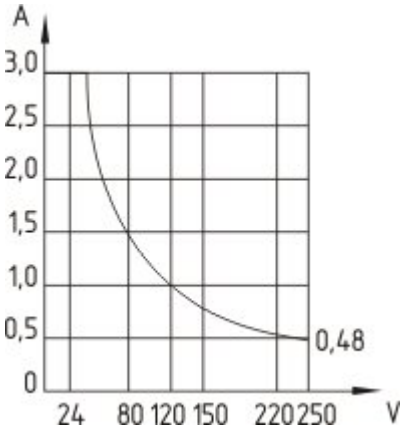
Images



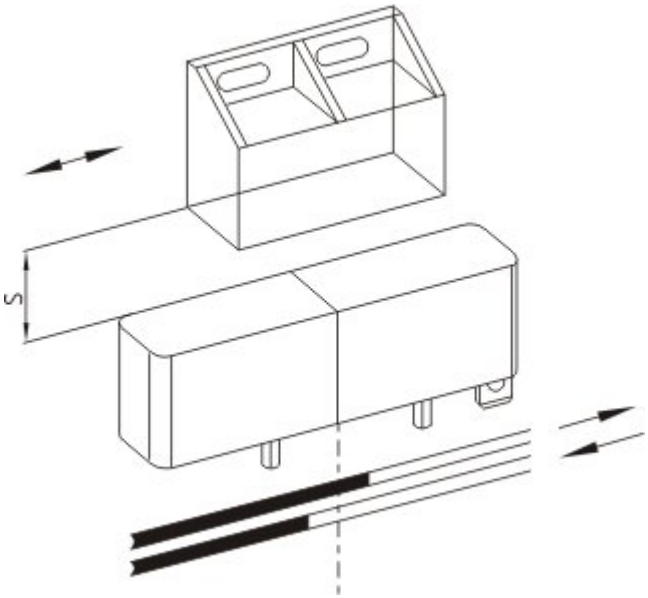
Dimensional drawing (basic component)



Characteristic curve



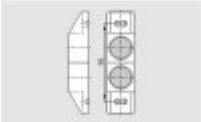
Characteristic curve



Diagram

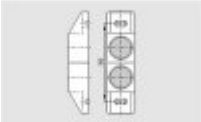
System components

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

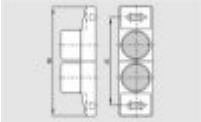
- Al-metal housing
- S-pole marked red
- Suitable for mounting on ferrous material

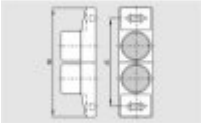
101057536 - BP 21 N

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

101059926 - BP 2x12 S

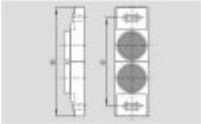
- Al-metal housing
- S-pole marked red
- Suitable for mounting on ferrous material





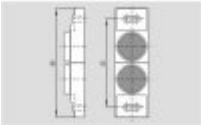
101059925 - BP 2x12 N

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



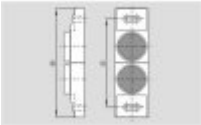
101059917 - BP 12 N

- 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

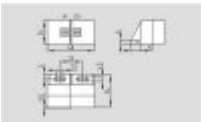
- Al-metal housing
- N-pole marked green
- Suitable for mounting on ferrous material

101057533 - BP 11 S

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

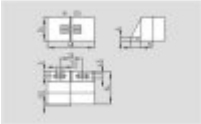
101059923 - BP 11 N

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



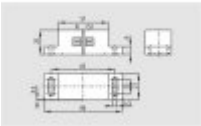
101057521 - BP 31 S

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



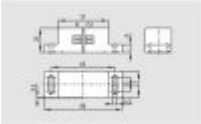
101057520 - BP 31 N

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



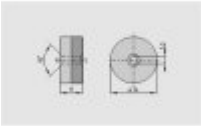
101057541 - BP 20 S

- 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

101057531 - BP 10

- Unenclosed
- Colour coding of poles by lables

Image

Image
et=sS