

Datasheet - BN 325-R-1239

Magnetic reed switch / BN 325



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 kontakts
- 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

Approval	-
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Global Properties

Product name	BN 325
Standards	IEC/EN 60947-5-2
Compliance with the Directives (Y/N) 	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	45 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	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

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
resistance 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	IP40

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 kontakts

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

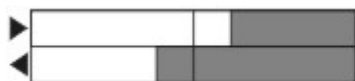
The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets.

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

 Break point

 Positive opening sequence/- angle

VS adjustable range of NO contact

VÖ adjustable range of NC contact

N after travel

Documents

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

Code: m_n30p01

Declaration of conformity (de) 188 kB, 10.07.2012

Code: __bn_p01

notice - Switch distance (pt) 39 kB, 07.08.2009

Code: s_bnbsp10

notice - Switch distance (es) 38 kB, 07.08.2009

Code: s_bnbsp09

notice - Switch distance (it) 40 kB, 07.08.2009

Code: s_bnbsp05

notice - Switch distance (nl) 39 kB, 07.08.2009

Code: s_bnbsp04

notice - Switch distance (fr) 41 kB, 07.08.2009

Code: s_bnbsp03

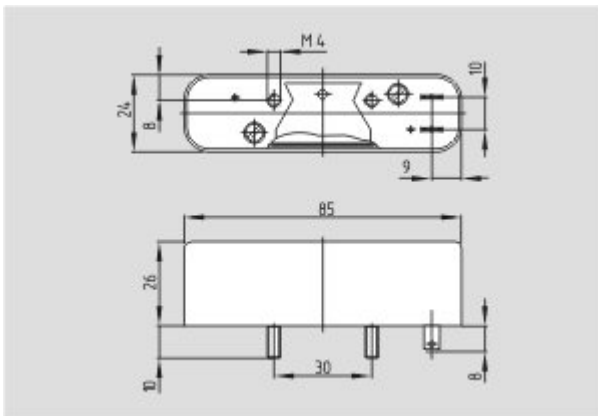
notice - Switch distance (en) 42 kB, 07.08.2009

Code: s_bnbsp02

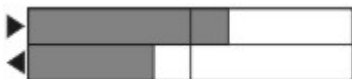
notice - Switch distance (de) 36 kB, 07.08.2009

Code: s_bnbsp01

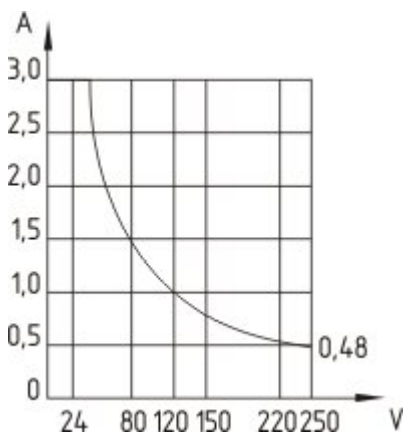
Images



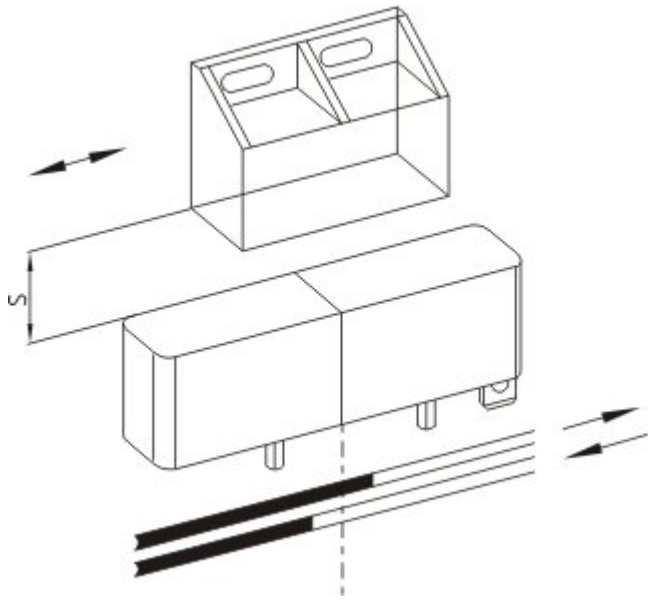
Dimensional drawing (basic component)



Switch travel diagram



Characteristic curve



Diagram

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The data and values have been checked thoroughly. Technical modifications and errors excepted.

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