



BN 120L-RZ/V 2,0M

- Actuation from front
- with bias magnet
- Non-contact principle
- Long life
- Thermoplastic enclosure
- Actuating distance up to 60 mm depending on actuating magnet and version
- Design Ø 10.7 mm
- with central mounting
- With pre-wired cable

Data

Ordering data

Product type description	BN 120L-RZ/V 2,0M
Article number (order number)	101210882
EAN (European Article Number)	4030661388434
eCl@ss number, version 12.0	27-27-43-02
eCl@ss number, version 11.0	27-27-01-05
eCl@ss number, version 9.0	27-27-01-05
ETIM number, version 7.0	EC002544
ETIM number, version 6.0	EC002544

General data

Working principle	Magnetic drive
Housing construction form	Cylinder, thread
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	56 g

General data - Features

Latching	Yes
Suitable for elevators	Yes
bias magnet	Yes
Number of snap-in contacts	1

Mechanical data

Actuating panels	front side
Actuating element	Magnet
Mechanical life, minimum	10,000,000 Operations
Actuating speed, maximum	18 m/s
Mounting	central with threaded flange M12 x 1
Tightening torque of nuts, maximum	0.9 Nm

Mechanical data - Switching distances according EN IEC 60947-5-3

Switching distance S_n	3 mm ... 45 mm
	2 x BP 10 = 3 mm
	BP 34 = 15 mm
	BP 20 = 10 mm
	BP 31 = 10 mm
	BP 11 = 15 mm
	BP 12 = 20 mm
	BP 21 = 45 mm
	BP 22 N = 35 mm
	BP 22 S = 35 mm
	BE 20 = 10 mm

Note (Switching distance S _n)	Actuating distance up to 45 mm depending on actuating magnet and version. The specified switching distances are applicable for the actuation of individually mounted components without ferromagnetic influence. A change of the distance, either positive or negative, is possible due to ferromagnetic influences. The mutual interference between multiple actuating magnets must be observed.
Repeat accuracy R	0.3 mm

Mechanical data - Connection technique

Length of cable	2 m
Termination	Cable
Wire cross-section	0.25 mm ²
Wire cross-section	23 AWG
Material of the Cable mantle	LiYY

Mechanical data - Dimensions

Diameter of sensor	10.7 mm
width across flats	17 BK
Length of sensor	102 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +70 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

Electrical data

Switching voltage, maximum	200 VAC
Switching voltage, maximum	200 VDC
Switching current, maximum	1 A

Switching capacity, maximum	30 W
Switching capacity, maximum	30 VA
Switching element	bistable contact

Electrical data - Digital Output

Design of control elements	Reed contacts
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Scope of delivery

Scope of delivery	Actuator must be ordered separately.
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Accessory

Recommendation (actuator)	2x BP 10
	BP 34
	BP 20
	BP 31
	BP 11
	BP 12
	BP 21
	BP 22 S
	BP 22 N
	BE 20
	Recommendation (actuator, lift switchgear)
2 x BP 10	
BP 15	
BP 34	

Note

Note (General)	<p>The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets.</p> <p>When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N). This does not apply to the bistable contact.</p> <p>The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.</p>
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Pictures

Product picture (catalogue individual photo)



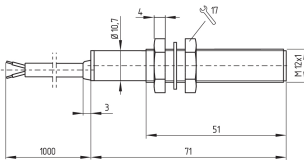
ID: kbn12f03

| 221.1 kB | .jpg | 91.722 x 529.167 mm - 260 x 1500 px - 72 dpi

| 170.1 kB | .png | 74.083 x 427.214 mm - 210 x 1211 px - 72 dpi

| 13.4 kB | .jpg | 21.519 x 123.472 mm - 61 x 350 px - 72 dpi

Dimensional drawing basic component



ID: 1bn12g04

| 23.3 kB | .cdr |

| 3.1 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

| 68.5 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

Switch travel diagram



ID: ksbn4sx3

| 18.0 kB | .cdr |

| 1.1 kB | .png | 74.083 x 18.697 mm - 210 x 53 px - 72 dpi

| 23.1 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250 px - 72 dpi

Switch travel diagram



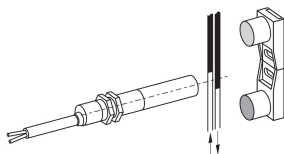
ID: ksbn4sx4

| 18.0 kB | .cdr |

| 1.1 kB | .png | 74.083 x 18.697 mm - 210 x 53 px - 72 dpi

| 22.8 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250 px - 72 dpi

Diagram



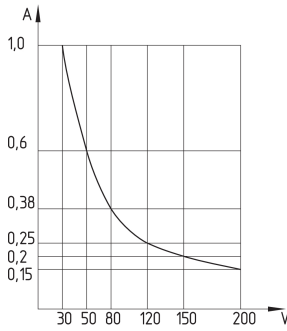
ID: 1bn12k07

| 22.7 kB | .cdr |

| 67.8 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

| 9.1 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

Characteristic curve



ID: kbn65d03

| 2.9 kB | .png | 73.731 x 84.314 mm - 209 x 239 px - 72 dpi

| 112.6 kB | .jpg | 352.425 x 402.167 mm - 999 x 1140 px - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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