



BN120-10Z/V

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

Data

Ordering data

Product type description	BN 120-10Z/V
Article number (order number)	101186841
EAN (European Article Number)	4030661335414
eCl@ss number, Version 9.0	27-27-01-05

General data

Product name	BN 120
Active principle	Magnetic drive
Housing construction form	Cylinder, thread
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	30 g

General data - Features

Suitable for elevators	Yes
bias magnet	Yes
Number of shutters	1

Mechanical data

Actuating panels	front side
Actuating element	Magnet
Mounting	central with threaded flange M12 x 1
Mechanical life, minimum	10,000,000 Operations
Switch distance	5 mm ... 55 mm
S _n	BP 10S = 5 mm

2 x BP 10S = 10 mm
 BP 15S = 6 mm
 BP 34S = 20 mm
 BP 20S = 15 mm
 BP 31S = 15 mm
 BP 11S = 5 mm
 2 x BP 11S = 15 mm
 BP 12S = 10 mm
 2 x BP 12S = 25 mm
 BP 21S = 30 mm
 2 x BP 21S = 20 ... 55 mm
 BP 22S = 25 mm
 2 x BP 22S = 15 ... 55 mm
 BE 20 S = 6 mm

Notice (Switch distance S_n) Actuating distance up to 55 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 R 0.3 mm

Actuating speed, maximum 18 m/s

Tightening torque of nuts, maximum 0.9 Nm

Mechanical data - Connection technique

Terminal Connector Cable
 Length of cable 1 m
 Wire cross-section 0.3 mm²
 Wire cross-section 23 AWG
 Material of the Cable mantle LiYY

Mechanical data - Dimensions

Diameter of sensor 10.7 mm
 Length of sensor 71 mm

Ambient conditions

Protection class IP 67 to IEC/EN 60529
 Ambient temperature, minimum -25 °C
 Ambient temperature, maximum +70 °C
 Resistance to vibrations to EN 60068-2-6 10 ... 55 Hz, amplitude 1 mm
 Resistance to shock 30 g / 11 ms

Electrical data

Switching voltage, 200 VAC

maximum Switching current, maximum	1 A
Switching capacity, maximum	30 W
Switching capacity, maximum	30 VA
Switching element	Normally open contact (NO)
Bounce duration, maximum	0.2 ms
Switching frequency, maximum	300 Hz

Electrical data - Digital Output

Versions	Reed contacts
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Scope of delivery

Included in delivery	Actuators must be ordered separately.
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Accessory

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

Notes

	The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets.
Note (General)	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. The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

Pictures

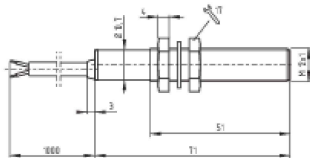
Product picture (catalogue individual photo)

ID: kbn12f02



| 237,5 kB | .jpg | 352.778 x 528.814 mm - 1000 x 1499 Pixel - 72 dpi
 | 21,0 kB | .png | 73.731 x 110.772 mm - 209 x 314 Pixel - 72 dpi

Dimensional drawing basic component



ID: 1bn12g04

| 3,1 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel - 72 dpi
 | 68,5 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi
 | 23,3 kB | .cdr |

Switch travel diagram



ID: ksbn4sx1

| 18,0 kB | .cdr |
 | 1,1 kB | .png | 74.083 x 18.697 mm - 210 x 53 Pixel - 72 dpi
 | 23,4 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250 Pixel - 72 dpi

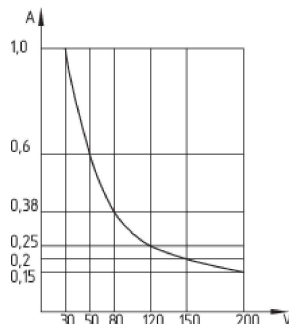
Diagram



ID: 1bn12k05

| 23,9 kB | .cdr |
 | 70,4 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi

Characteristic curve



ID: kbn65d03

| 2,9 kB | .png | 73.731 x 84.314 mm - 209 x 239 Pixel - 72 dpi
 | 112,6 kB | .jpg | 352.425 x 402.167 mm - 999 x 1140 Pixel - 72 dpi
 | 16,7 kB | .cdr |

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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