



BN 120L-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

Note (Delivery capacity)	Phased-out product
	BN 120L-10Z/V
	101210880
EAN (European Article Number)	4030661388472
eCl@ss number, Version 9.0	27-27-01-05

General data

	BN 120L
Active principle	Magnetic drive
Housing construction form	Cylinder, thread
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	56 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
	5 mm ... 55 mm
	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
Notice (Switch distance Sn)	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
Tightening torque of nuts, maximum	0.9 Nm

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	2 m
Wire cross-section	0.3 mm ²
Wire cross-section	23 AWG
	LiYY

Mechanical data - Dimensions

Diameter of sensor	10.7 mm
width across flats	17 BK
Length of sensor	102 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
	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	Normally open contact (NO)

Electrical data - Digital Output

Versions	Reed contacts
----------	---------------

Scope of delivery

Included in delivery	Actuators must be ordered separately.
----------------------	---------------------------------------

Accessory

- 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

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

Photo/Product/Catalogue

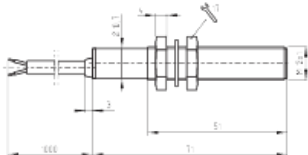


ID: kbn12f03

| 170,1 kB | .png | 74.083 x 427.214 mm - 210 x 1211
Pixel - 72 dpi

| 221,1 kB | .jpg | 91.722 x 529.167 mm - 260 x 1500
Pixel - 72 dpi

Dimension/Product/Basic



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 |

Diagramm/Product/Travel

ID: ksbn4sx1

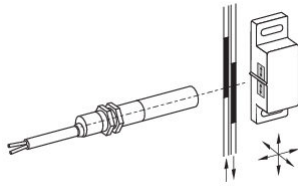


| 18,0 kB | .cdr |

| 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

Graphic/Product/Contact



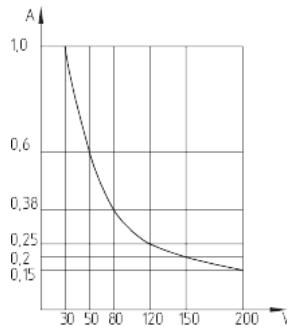
ID: 1bn12k05

| 23,9 kB | .cdr |

| 70,4 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691

Pixel - 72 dpi

Diagramm/Product/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.

Generated on 072021-01-31T16:34:07+01:000401Europe/BerlinSun, 31 Jan 2021 16:34:07

+010007pmSunday.31pm31Europe/BerlinCET3401Europe/BerlinJanuary2021Sun, 31 Jan 2021 16:34:07

+010001pm31