



BN 650-10Z/V

- Long life
- with bias magnet
- With pre-wired cable
- Actuation from front
- Non-contact principle
- with central mounting
- Thermoplastic enclosure
- Construction form Ø 13 mm
- Actuating distance up to 60 mm depending on actuating magnet and version

Data

Ordering data

	BN 650-10Z/V
	101187281
EAN (European Article Number)	4030661335735
eCl@ss number, Version 9.0	27-27-01-05

General data

	BN 650
Active principle	Magnetic drive
Housing construction form	Cylinder smooth
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	65.5 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
Mechanical life, minimum	100,000,000 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 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

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	1 m
Wire cross-section	0.3 mm ²
Wire cross-section	23 AWG
	LiYY

Mechanical data - Dimensions

Diameter of sensor	13 mm
Length of sensor	103 mm

Ambient conditions

Protection class	IP 67 to IEC/EN 60529
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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)
Bounce duration, maximum	0.2 ms
Switching frequency, maximum	300 Hz
Switching frequency	1,080,000 /h

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

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

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

Pictures

Photo/Product/Catalogue



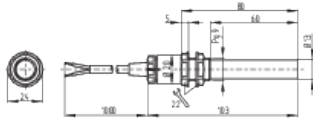
ID: kbn65f03

| 204,6 kB | .jpg | 352.778 x 518.231 mm - 1000 x 1469 Pixel - 72 dpi

| 16,3 kB | .png | 74.083 x 108.656 mm - 210 x 308 Pixel - 72 dpi

Dimension/Product/Basic

ID: 1bn65g04



| 7,3 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel
- 72 dpi

| 24,8 kB | .cdr |

| 77,6 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701
Pixel - 72 dpi

Diagramm/Product/Travel

ID: ksbn4sx1

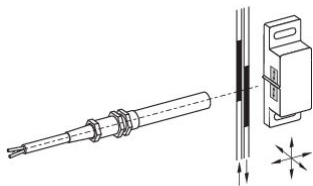


| 18,0 kB | .cdr |

| 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

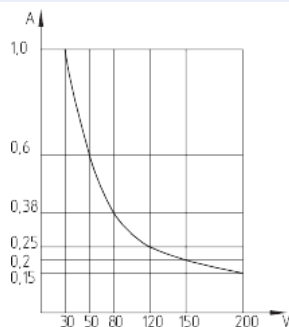


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| 23,0 kB | .cdr |

| 71,5 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691
Pixel - 72 dpi

Diagramm/Product/Curve	Diagramm	Product	Curve
1	Diagramm 1	Product 1	Curve 1
2	Diagramm 2	Product 2	Curve 2
3	Diagramm 3	Product 3	Curve 3
4	Diagramm 4	Product 4	Curve 4
5	Diagramm 5	Product 5	Curve 5
6	Diagramm 6	Product 6	Curve 6
7	Diagramm 7	Product 7	Curve 7
8	Diagramm 8	Product 8	Curve 8
9	Diagramm 9	Product 9	Curve 9
10	Diagramm 10	Product 10	Curve 10
11	Diagramm 11	Product 11	Curve 11
12	Diagramm 12	Product 12	Curve 12
13	Diagramm 13	Product 13	Curve 13
14	Diagramm 14	Product 14	Curve 14
15	Diagramm 15	Product 15	Curve 15
16	Diagramm 16	Product 16	Curve 16
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88	Diagramm 88	Product 88	Curve 88
89	Diagramm 89	Product 89	



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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