DATASHEET

BN 65-RZ

- With pre-wired cable
- Actuation from side
- with bias magnet
- Non-contact principle
- Long life
- Actuating surface and direction of actuation marked by switch symbol
- Construction form Ø 13 mm
- Thermoplastic enclosure
- Actuating distance up to 60 mm depending on actuating magnet and version
- with central mounting

Data

Ordering data

Product type description	BN 65-RZ
Article number (order number)	101055800
EAN (European Article Number)	4030661009490
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

Approvals - Standards

Certificates	cULus

General data

Working principle	Magnetic drive
Housing construction form	Cylinder smooth
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	75 g

General data - Features

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

Mechanical data

Actuating panels	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
Actuating speed, maximum	18 m/s
Mounting	central with threated flange
Tightening torque of nuts, maximum	3 Nm

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

Switching distance S_n	15 mm ... 60 mm BP 10N = 15 mm BP 10S = 15 mm 2 x BP 10N = 20 mm 2 x BP 10S = 20 mm BP 15N = 17 mm BP 15S = 17 mm 2 x BP 15/2N = 22 mm 2 x BP 15/2S = 22 mm BP 34N = 10 ... 30 mm BP 34S = 15 ... 30 mm BP 20N = 25 mm BP 20S = 25 mm BP 31N = 25 mm BP 31S = 25 mm BP 11N = 15 mm BP 11S = 15 mm 2 x BP 11N = 25 mm 2 x BP 11S = 25 mm BP 12N = 20 mm BP 12S = 20 mm 2 x BP 12N = 10 ... 30 mm 2 x BP 12S = 10 ... 30 mm BP 21N = 15 ... 45 mm BP 21S = 15 ... 45 mm 2 x BP 21N = 20 ... 60 mm 2 x BP 21S = 20 ... 60 mm BE 20N = 20 mm BE 20S = 20 mm
Note (Switching distance Sn)	Actuating distance up to 60 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	1 m
Termination	Cable
Wire cross-section	0.75 mm^2
Wire cross-section	18 AWG
Material of the Cable mantle	H03VV-F

Mechanical data - Dimensions

Diameter of sensor	13 mm
width across flats	22 BK
Length of sensor	103 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +75 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Restistance to shock	30 g, on sine wave oscillation
Resistant to vibration	30 g, on sine wave oscillation

Electrical data

Switching voltage, maximum	250 VAC
Switching current, maximum	3 A
Switching capacity, maximum	120 W
Switching element	bistable contact
Bounce duration, minimum	0.3 ms
Bounce duration, maximum	0.6 ms
Switching frequency, maximum	300 Hz
Maximum switching frequency	1,080,000 /h

Electrical data - Digital Output

Design of control elements	Reed contacts

Scope of delivery

Scope of delivery	Actuator must be ordered separately.

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

Note

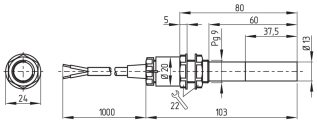
Note (General)	The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets. When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N). This does not apply to the bistable contact.

Pictures

Product picture (catalogue individual photo)

ID: kbn65f01
| 303.0 kB | .jpg | 90.664 x 656.519 mm - 257 x 1861 px - 72 dpi
| 252.7 kB | .png | 74.083 x 536.222 mm - 210 x 1520 px - 72 dpi
| 9.9 kB | .jpg | 16.933 x 123.472 mm - 48 x 350 px - 72 dpi

Dimensional drawing basic component



ID: 1bn65g03
| 25.2 kB | .cdr |
| 7.6 kB | .png | 74.083 x 51.858 mm - 210 x 147 px - 72 dpi
| 81.6 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

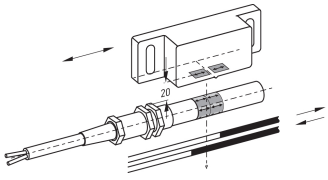
Switch travel diagram

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

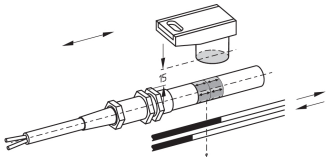
ID: ksbn4sx4
| 18.0 kB | .cdr |
| 1.1 kB | .png | 74.083 x 18.697 mm - 210 x 53 px - 72 dpi
| 22.8 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250 px - 72 dpi

Diagram



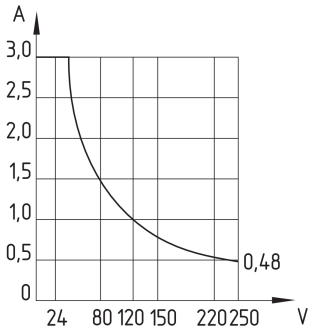
ID: 1bn65k03
| 107.6 kB | .jpg | 352.778 x 184.503 mm - 1000 x 523 px - 72 dpi
| 12.3 kB | .png | 74.083 x 38.806 mm - 210 x 110 px - 72 dpi

Diagram



ID: 1bn65k04
| 95.5 kB | .jpg | 352.778 x 166.864 mm - 1000 x 473 px - 72 dpi
| 11.6 kB | .png | 74.083 x 34.925 mm - 210 x 99 px - 72 dpi

Characteristic curve



ID: kbn32d03
| 3.1 kB | .png | 73.731 x 77.964 mm - 209 x 221 px - 72 dpi
| 116.4 kB | .jpg | 352.425 x 371.828 mm - 999 x 1054 px - 72 dpi

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