# **DATASHEET**





# **BN 65-RZ/V**

- With pre-wired cable
- Actuation from front
- 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**

EAN (European Article 4030661009933

Number)

eCl@ss number, Version 27-27-01-05

9.0

eCl@ss number, Version 27-27-01-05

11.0

ETIM number, version 6.0 EC002544

ETIM number, version 7.0 EC002544

# **Approval - Standards**

Certificates cULus

#### **General data**

Active principle Magnetic drive

Housing construction

form

Cylinder smooth

Enclosure material Glass-fibre, reinforced thermoplastic

Gross weight 70 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 1,000,000,000 Operations

Repeat accuracy R R 0.3 mm

Actuating speed,

maximum

18 m/s

Mounting central with threated flange

Tightening torque of

nuts, maximum

3 Nm

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

Switch distance S<sub>n</sub>

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

Notice (Switch distance

Sn)

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.

## **Mechanical data - Connection technique**

Terminal Connector Cable

Length of cable 1 m

Wire cross-section 0.75 mm<sup>2</sup>

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 to EN 60529

Ambient temperature,

minimum

-25 °C

Ambient temperature,

maximum

+75 °C

Resistance to vibrations

to EN 60068-2-6

10 ... 55 Hz, amplitude 1 mm

Restistance to shock

15 g, on sine wave oscillation

Resistant to vibration

15 g, on sine wave oscillation

#### **Electrical data**

Switching voltage,

maximum

250 VAC

Switching current,

maximum

3 A

Switching capacity,

maximum

120 W

Switching capacity,

maximum

120 VA

Switching element

bistable contact

Bounce duration,

minimum

0.3 ms

Bounce duration,

maximum

0.6 ms

Switching frequency,

maximum

300 Hz

Switching frequency

720,000 /h

# **Electrical data - Digital Output**

Versions Reed contacts

## **Scope of delivery**

## **Accessory**

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

#### **Notes**

Note (General) The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

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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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