



BN 650-10Z/V

- With pre-wired cable
- Actuation from front
- with bias magnet
- Non-contact principle
- Long life
- 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 Number) 4030661335735

eCl@ss number, Version 9.0 27-27-01-05

eCl@ss number, Version 11.0 27-27-01-05

ETIM number, version 6.0 EC002544

ETIM number, version 7.0 EC002544

General data

Active principle Magnetic drive

Housing construction form Cylinder smooth

Enclosure material Glass-fibre, reinforced thermoplastic

Gross weight	65.5 g
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General data - Features

Suitable for elevators	Yes
bias magnet	Yes
Number of shutters	1

Mechanical data

Actuating panels	front side
Actuating element	Magnet
Mechanical life, minimum	100,000,000 Operations
Repeat accuracy R R	0.3 mm
Actuating speed, maximum	18 m/s
Mounting	central with threaded flange

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

Switch distance S_n	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 BE 20 S = 6 mm
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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.
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Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	1 m
Wire cross-section	0.25 mm ²
Wire cross-section	23 AWG
Material of the Cable mantle	LiYY

Mechanical data - Dimensions

Diameter of sensor	13 mm
Length of sensor	103 mm

Ambient conditions

Degree of protection	IP67 to 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, maximum	200 VAC
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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

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	BP 10
(actuator, lift switchgear)	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.
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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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