



BN 85-R

- Mounting with clamping brackets and 2 single wires
- Actuation from front
- Non-contact principle
- 1 Reed contacts
- Long life
- Actuating distance up to 40 mm depending on actuating magnet and version
- 40 mm x 35 mm x 16,5 mm
- Thermoplastic enclosure
- Reed-contact to clip-in, on-location assembly

Data

Ordering data

EAN (European Article Number) 4030661023472

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 Block

Enclosure material Glass-fibre, reinforced thermoplastic

Gross weight	40 g
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General data - Features

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

Mechanical data

Actuating panels	front side
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
Actuating speed, maximum	18 m/s
Mounting	clamping foot and 2 single wires

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

Switch distance S_n	2 mm ... 40 mm BP 6S = 2 ... 12 mm BP 8S = 2 ... 10 mm BP 10S = 5 ... 20 mm 2 x BP 10S = 6 ... 27 mm BP 15S = 5 ... 22 mm 2 x BP 15S = 7 ... 28 mm BP 34S = 10 ... 40 mm BP 20S = 3 ... 28 mm BP 31S = 4 ... 30 mm BP 11S = 4 ... 23 mm BP 12S = 5 ... 27 mm
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Notice (Switch distance S_n)	Actuating distance up to 40 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	0.75 mm ²
Wire cross-section	18 AWG
Material of the Cable mantle	LiY

Mechanical data - Dimensions

Length of sensor	16.5 mm
Width of sensor	40 mm
Height of sensor	35 mm

Ambient conditions

Degree of protection	IP40 to EN 60529
Ambient temperature, minimum	+0 °C
Ambient temperature, maximum	+75 °C
Resistance to shock	60 g, on sine wave oscillation

Electrical data

Switching voltage, maximum	60 VDC
Switching current, maximum	1 A
Switching capacity, maximum	30 W
Switching element	bistable contact
Bounce duration, maximum	0.2 ms

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 BP 12 S BP 6 S BP 8 S 2 x BP 15 S
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Recommendation (actuator, lift switchgear)	BP 10 BP 6 2 x BP 15 2 x BP 10 BP 15 BP 34
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Notes

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