



## BN 85-R-1824-3 1,0M

- Mounting with clamping brackets and sheathed cable
- Actuation from front
- Non-contact principle
- 1 Reed kontakts
- 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

Product type description	BN 85-R-1824-3 1,0M
Article number (order number)	101101624
EAN (European Article Number)	4030661023533
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

### General data

Working principle	Magnetic drive
Housing construction form	Block
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	43 g

### 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	Mounting with clamping foot and sheathed cable

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

Switching 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

Note (Switching 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.

### Mechanical data - Connection technique

Length of cable	1 m
Termination	Cable
Wire cross-section	0.25 mm <sup>2</sup>
Wire cross-section	23 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
Ambient temperature	+0 ... +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

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  
BP 12 S  
BP 6 S  
BP 8 S  
2 x BP 15 S

Recommendation (actuator, lift switchgear)      BP 10  
BP 6  
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.

## Pictures

### Product picture (catalogue individual photo)

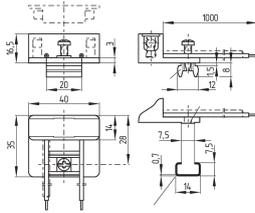


ID: kbn85f04

| 227.6 kB | .jpg | 352.778 x 130.528 mm - 1000 x 370 px - 72 dpi

| 28.7 kB | .png | 74.083 x 27.517 mm - 210 x 78 px - 72 dpi

## Dimensional drawing basic component



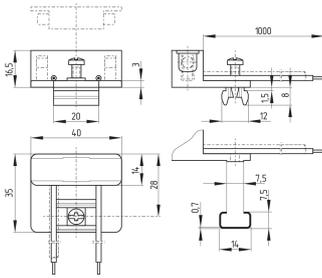
ID: 1bn85g02

| 36.1 kB | .cdr |

| 10.0 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

| 122.1 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

## Dimensional drawing basic component



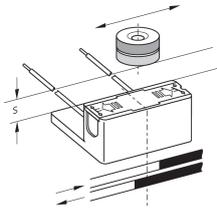
ID: kbn85g02

| 34.7 kB | .cdr |

| 11.1 kB | .png | 74.083 x 62.794 mm - 210 x 178 px - 72 dpi

| 140.3 kB | .jpg | 352.778 x 299.508 mm - 1000 x 849 px - 72 dpi

## Diagram



ID: 1bn85k04

| 24.1 kB | .cdr |

| 99.2 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

| 12.3 kB | .png | 74.083 x 51.153 mm - 210 x 145 px - 72 dpi

Schmersal India Pvt. Ltd., Plot No - G-7/1, Ranjangaon MIDC, Tal. - Shirur, Dist.- Pune 412 220

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.

Generated on: 22/08/2024, 2:04 pm