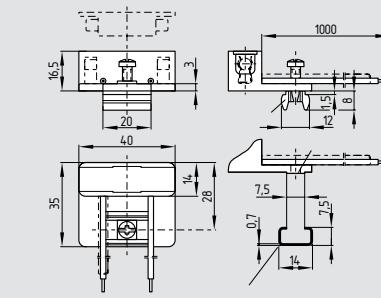


Magnetic reed switches

BN 85



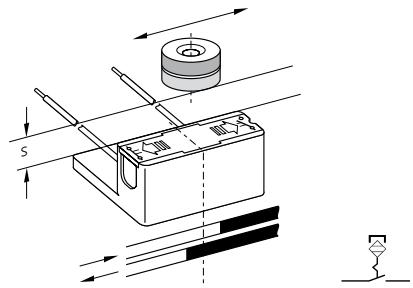
- Thermoplastic enclosure
- Square design
- Mounting holes
- For mounting on C-rail
- Through central fixing screw
- Front actuation
- Actuation surface and direction of actuation marked by switch symbol
- Bistable contact
- 1 reed contact to clip on
- Selection of actuating magnets available
- With pre-wired cable, cable length 1 m
- Other lengths available on request
- Inversion of the switching function by 180° rotation

Technical data

Standards:	EN 60947-5-2
Design:	square
Enclosure:	glass-fibre reinforced thermoplastic
Protection class:	IP 40 to EN 60529
Termination:	2 individual wires LiY 0.75 mm ² , 1 m long magnetic
Operating principle:	max. 60 VAC/DC max. 1 A
Switching voltage:	max. 30 W
Switching current:	400 VDC
Switching capacity:	max. 2 ms
Dielectric strength:	max. 0.07 ms
Switching time "closing":	max. 0.2 ms
Switching time "opening":	0 °C ... + 75 °C
Bounce time:	1 billion operations
Ambient temperature:	Electrical life: 500 million operations, depending on load
Mechanical life:	60 g sinusoidal oscillation
Electrical life:	min. 2 mm
Resistance to shocks:	max. 40 mm
Switching distances:	

Contact variants

1 bistable contact BN 85-rz with S magnet



s: Switching distance

Approvals

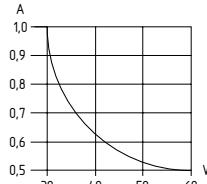


Ordering data

BN 85-r-①

N°	Insert	Description
①	1831-1	For mounting on C-rail individual wire 2 x 0.75mm ² without screws
	1831-2	individual wires 2 x 0.75mm ² with screws
	1824-1	non-metallic sheathed cable 2 x 0.25mm ² without screws
	1824-2	non-metallic sheathed cable 2 x 0.25mm ² with screws with clamping feet and screw
	1824-3	non-metallic sheathed cable 2 x 0.25mm ² without screws
e		Spare part / switch insert individual

Switching capacity



Notice

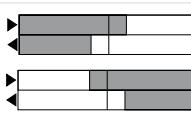
The NC and NO function depends on the direction of actuation, the strength and the polarity of the actuating magnet.

The actuating magnets are not included in delivery.

For the selection of the actuating magnets, please use the table on page 2-40.

Magnetic reed switches

Actuating magnets

Part number	BN 85-rz
Switch travel	 N
Contacts	1 bistable contact
Actuation type	N or S
Actuating magnet	actuating distance [mm] s min. – max.
BP 6	2 – 12
BP 10	5 – 20
BP 2 x 10	6 – 27
BP 15	5 – 22
BP 2 x 15	7 – 28
BP 34	10 – 40