

SP100

Energy backup for monitoring relays



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SP100

Product description

The energy backup of the SP100 series is a supplementary device for measuring and monitoring relays featuring a time function, if these are operated without external supply voltage. It provides the electronics of the connected monitoring relay with the necessary energy, to cover the duration of the maximum time delay after power supply failure.

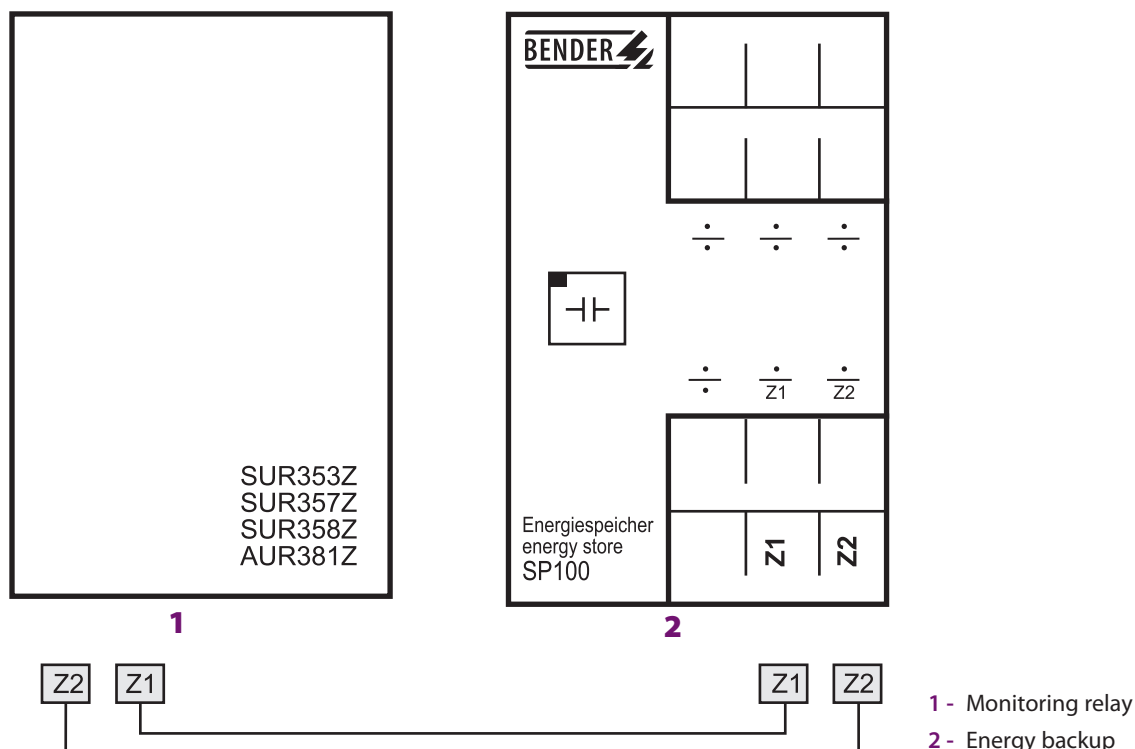
Function

After commissioning of the measuring and monitoring relay, the capacitor of the SP100 is charged from the connected relay. If the supply voltage of the measuring and monitoring relay or the system being monitored fails, the SP100 supplies the respective devices with energy so that the set response delay of the relay will be effective.

Device features

- Energy backup for measuring and monitoring relays of the SUR353Z, SUR357Z, SUR358Z, AUR381Z series
- 45 mm enclosure

Wiring diagram



Technical data

Insulation coordination acc. to IEC 60664-1

Rated insulation voltage	DC 50 V
Rated impulse voltage/pollution degree	1.5 kV/3

Output Z1/Z2

Supply voltage	DC 27 V
Storage capacity to supply the measuring and monitoring relays below	< 5 s
Recovery time	< 30 s
Internal fuse, triggered in case of incorrect connection	0.05 A slow fuse

Environment/EMC

EMC immunity	acc. to IEC 61000-6-2
EMC emission	acc. to IEC 61000-6-4
Shock resistance IEC 60068-2-27 (device in operation)	15 g/11 ms
Bumping IEC 60068-2-29 (transport)	40 g/6 ms
Vibration resistance IEC 60068-2-6 (device in operation)	1 g/10...150 Hz
Vibration resistance IEC 60068-2-6 (device not in operation)	2 g/10...150 Hz
Ambient temperature, during operation	-10...+50 °C
Ambient temperature, during storage	-40...+70 °C
Climatic class acc. to IEC 60721-3-3	3K5 (except condensation and formation of ice)

Connection

Connection	flat terminals with self-lifting clamp washers
Connection properties	
single wire	2 x (1...1.5) mm ²
flexible with end ferrule	2 x (0.75...1.5) mm ²

Other

Operating mode	continuous operation
Mounting	any position
Degree of protection, internal components (IEC 60529)	IP50
Degree of protection terminals (IEC 60529)/with terminal covers	IP10/IP20
Screw mounting	with mounting rail
DIN rail mounting acc. to	IEC 60715
Flammability class	UL94V-0
Operating manual	BP309001
Weight	≤ 290 g

Ordering information

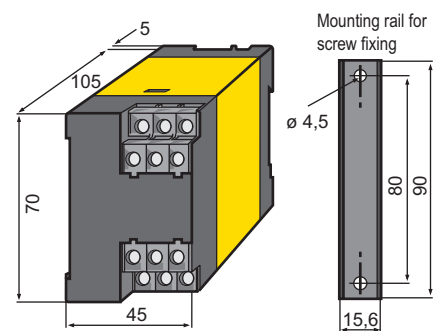
Type	Art. No.
SP100	B 935 700

Accessories

Type	Art. No.
Mounting rail for screw mounting	B 974 728

Dimension diagram

Dimensions in mm





Bender GmbH & Co. KG

P.O. Box 1161 • 35301 Gruenberg • Germany
Londorfer Strasse 65 • 35305 Gruenberg • Germany
Tel.: +49 6401 807-0 • Fax: +49 6401 807-259
E-Mail: info@bender.de • www.bender.de



BENDER Group