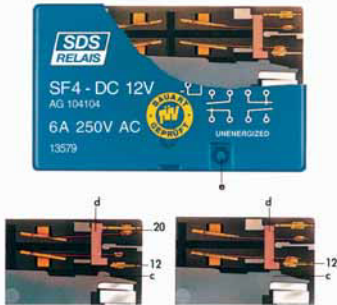
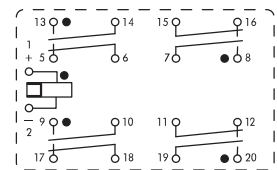
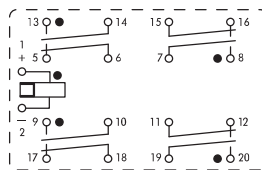


<p>If required a breathing hole can be made in the cover. However be aware that the degree of waterproof protection will reduce from IP67 to IP30!</p>	<p>Safety relay type SDS SF 4 with 4 break contacts and 4 make contacts with 1 relay with universal mounting carrier</p>	<p>Safety relay type SDS SF 4 with 4 break contacts and 4 make contacts with 2 relays with universal mounting carrier</p>
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If an outer contact (20) should weld then the forced operated inner contact (12) driven by the actuator (d) remains open. The rotating armature (c) remains free to move. The unaffected contact pairs can operate normally, (i. e. their function to make or break remains unaffected). If an inner contact should weld (12) then the movement of the rotating armature (c) is blocked via the operator (d). Open contacts of all four contact pairs remain open. This arrangement corresponds to conventional, forced contact



Description	V _N	I _N	Item No.	Pack. Unit	V _N	I _N	Item No.	Pack. Unit
Switching relay module	5 V DC	100 mA	288-412	1	5 V DC	100 mA	288-422	1
	12 V DC	41.7 mA	288-413	1	12 V DC	41.7 mA	288-423	1
	24 V AC/DC	20.9 mA	288-414	1	24 V AC/DC	20.9 mA	288-424	1
	48 V AC/DC	10.5 mA	288-415	1	48 V AC/DC	10.5 mA	288-425	1
	60 V AC/DC	8.4 mA	288-416	1	60 V AC/DC	8.4 mA	288-426	1
	230 V AC	9.4 mA	288-418	1	230 V AC	9.4 mA	288-428	1

Technical Data

Contact material	Ag Sn O 0.1 µm Au	Ag Sn O 0.1 µm Au
Max. switching voltage	250 V AC	250 V AC
Max. make / break current	20 A / 6 A	20 A / 6 A
Max. continuous current	6 A	6 A
Max. switching power (resistive)	150 W / 1500 VA	150 W / 1500 VA
Pull-in / operating power	280 mW / 500 mW	280 mW / 500 mW
Pull-in/drop-out/bounce time typ.	18 ms / 6 ms / 4 ms	18 ms / 6 ms / 4 ms
Dielectric strength contact-coil (AC, 1 min)	2.5 kV	2.5 kV
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 2.5 kV / 3	250 V / 2.5 kV / 3
Mechanical life	1 x 10 ⁷ switching operations	1 x 10 ⁷ switching operations
Mechanical life at max. load (resistance)	1 x 10 ⁵ switching operations	1 x 10 ⁵ switching operations
Ambient operating temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) L x W x H incl. mounting carrier and relay	63.5 x 40 x 85	127 x 40 x 85
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP® (WAGO 256 Series)	Height from upper-edge of DIN 35 rail CAGE CLAMP® (WAGO 236 Series)
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12
Stripped lengths	5 ... 6 mm / 0.22 in	5 ... 6 mm / 0.22 in
Relay Approvals	SEV approvals, no. D 3.31/192; SUVA approvals, no. 36 62 (delayed operation 5 Amp fuse); TÜV test no. 945/EL 178/88; UL recognized, file no. E 43149	SEV approvals, no. D 3.31/192; SUVA approvals, no. 36 62 (delayed operation 5 Amp fuse); TÜV test no. 945/EL 178/88; UL recognized, file no. E 43149
Accessories		
WMB Multi marking system for mounting carrier	see page 408	see page 408
Marker strips for mounting carrier	white 709-198 / transparent 709-197	white 709-198 / transparent 709-197