

- Subminiature, monostable relays for switching very low load • **DC coils - standard and sensitive of up to 48 V DC**, low coil power 0,15 W (sensitive version) or 0,20...0,30 W (standard version) • Dielectric strength 1000 Vrms, sealed, for wave soldering and cleaning • High reliability (split contacts)
- Conforms to FCC Part 68 - 1500 V - lightning surge • Applications: for telecommunication devices, office equipment, alarm systems, measurement devices, medical monitoring devices, AV devices, control sensors
- Recognitions, certifications, directives: RoHS,

### Contact data

Number and type of contacts		2 C/O
Contact material		<b>AgPd/Au 0,2 μm</b>
Rated / max. switching voltage	AC	125 V / 125 V
Min. switching voltage		10 mV
Rated load	AC1	0,5 A / 120 V AC
	DC1	1 A / 24 V DC
Min. switching current		0,01 mA
Rated current		1 A
Max. breaking capacity	AC1	62,5 VA
Contact resistance		≤ 50 mΩ

### Coil data

Rated voltage	DC	3...12 V sensitive version 24...48 V standard version
Must release voltage		DC: ≥ 0,05 U <sub>n</sub> ≥ 0,1 U <sub>n</sub>
Operating range of supply voltage		see Table 1
Rated power consumption	DC	0,15 W sensitive version 0,20...0,30 W standard version

### Insulation according to PN-EN 60664-1

Dielectric strength		
• between coil and contacts		1 000 V AC type of insulation: basic
• contact clearance		1 000 V AC type of clearance: micro-disconnection
Contact - coil distance		
• clearance		≥ 1,9 mm
• creepage		≥ 3,6 mm

### General data

Operating / release time (typical values)		7 ms / 4 ms
Electrical life		
• resistive AC1	1 800 cycles/hour	2 x 10 <sup>5</sup> 0,5 A, 120 V AC
• resistive DC1	1 800 cycles/hour	5 x 10 <sup>5</sup> 1 A, 24 V DC
Mechanical life	18 000 cycles/hour	> 10 <sup>8</sup>
Dimensions (L x W x H)		20,1 x 9,8 x 12 mm
Weight		4,5 g
Ambient temperature	• operating	-40...+90 °C
Cover protection category		IP 64 PN-EN 60529
Shock resistance		10 g
Vibration resistance		1,5 mm DA (constant amplitude) 10...55 Hz
Solder bath temperature		max. 235 °C
Soldering time		max. 3,5 s

The data in bold type pertain to the standard versions of the relays.

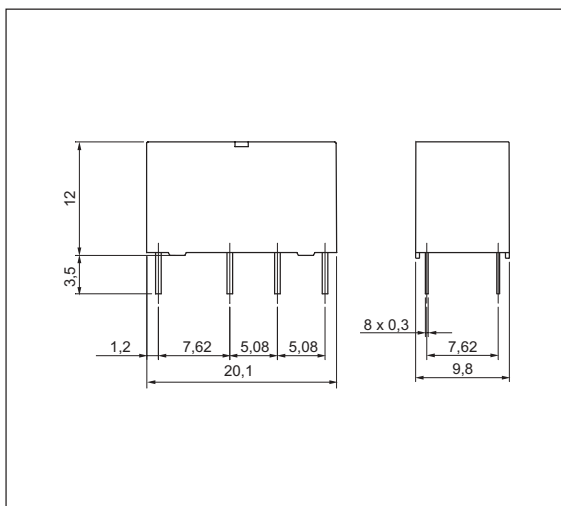
For versions of relays with coils 24 V, 48 V.

### Coil data - DC voltage version

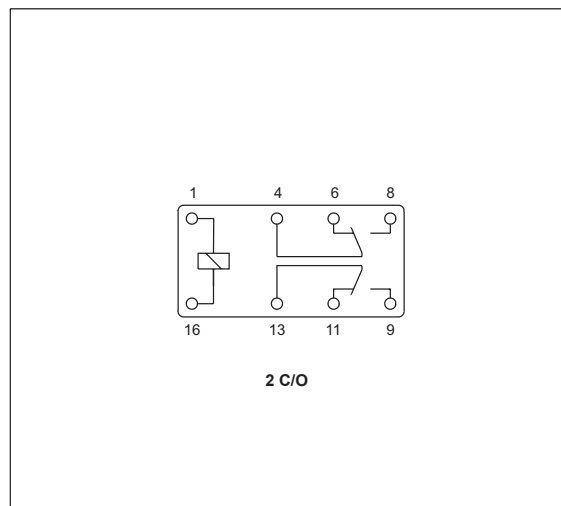
Table 1

Coil code		Rated voltage V DC	Coil resistance ± 10% at 20°C Ω	Coil operating range at 20°C V DC		Power consumption mW
standard version	sensitive version			min.	max.	
–	S003	3	60	2,1	4,5	150
–	S005	5	167	3,5	7,5	150
–	S006	6	240	4,2	9,0	150
–	S009	9	540	6,3	13,5	150
–	S012	12	960	8,4	18,0	150
1024	–	24	2 880	16,8	36,0	200
1048	–	48	7 680	33,6	72,0	300

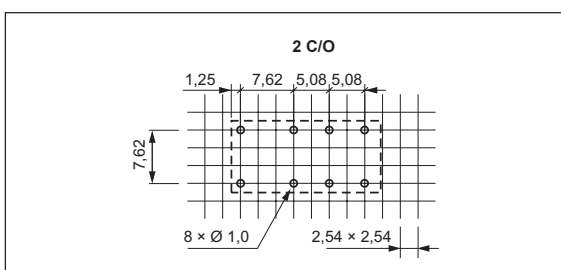
### Dimensions



### Connection diagram (pin side view)



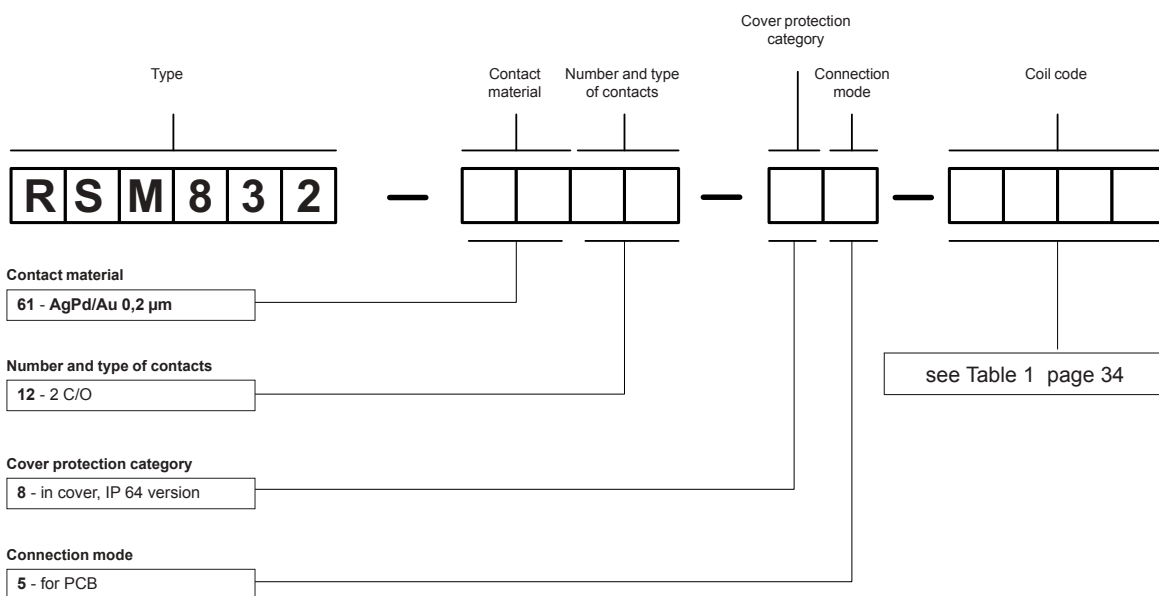
### Pinout (solder side view)



### Mounting

Relays **RSM832** are designed for direct PCB mounting.

### Ordering codes



Example of ordering code:

**RSM832-6112-85-S003**

relay **RSM832**, contact material AgPd/Au 0,2 μm, with two changeover contacts, in cover IP 64, for PCB, sensitive voltage version 3 V DC