RSM850B subminiature - signal relays

BISTABLE

1-COIL



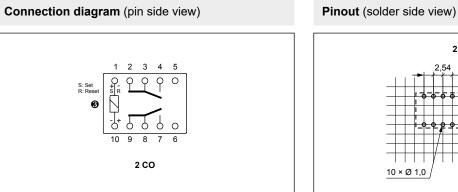
- DC coils of up to 24 V DC, low coil power 0,10 ... 0,15 W
- For PCB Sealed, for wave soldering and cleaning
- Dielectric strength 1000 Vrms
- Applications: for telecommunication devices, office equipment, alarm systems, measuring instruments, medical monitoring devices, AV devices, control sensors
- Conforms to FCC Part 68 1500 V lightning surge
- Recognitions, certifications, directives: RoHS, CRUs

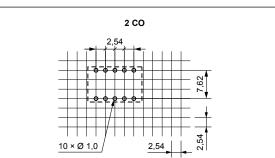
Contact data	• Recognitions, certifications, directives: RoHS, CRUs			
Number and type of contacts	2 CO			
Contact material	AgPd/Au flash gold plating			
Rated / max. switching voltage AC	125 V / 250 V			
Min. switching voltage	10 mV 0			
Rated load AC1	0,5 A / 125 V AC			
DC1	2 A / 30 V DC			
Min. switching current	0,01 mA 🛛			
Rated current	2 A			
Max. breaking capacity AC1	62,5 VA			
Contact resistance	≤ 50 mΩ			
Coil data				
Rated voltage DC	3, 5, 6, 9, 12, 24 V			
Must release voltage	-0.75 UnUmax. @			
Operating range of supply voltage	see Table 1			
Rated power consumption DC	0,10 W 3 12 V 0,15 W 24 V			
Insulation according to EN 60664-1				
Insulation resistance	1 000 MΩ 500 V DC, 60 s			
Dielectric strength				
between coil and contacts	1 000 V AC type of insulation: basic			
contact clearance	1 000 V AC type of instalation. basic			
• pole - pole	1 000 V AC type of insulation: basic			
Contact - coil distance				
clearance	≥ 0,5 mm			
• creepage	≥ 0.9 mm			
General data				
Operating / release time (typical values)	3 ms / 3 ms			
Electrical life				
resistive AC1 1 200 cycles/hour	10 ⁵ 0,5 A, 125 V AC			
resistive DC1 1 200 cycles/hour	2×10^5 1 A, 30 V DC			
Mechanical life 10 800 cycles/hour	108			
Dimensions (L x W x H)	14,3 x 9,3 x 5,4 mm			
Weight	1,5 g			
Ambient temperature	.,			
(non-condensation and/or icing) • operating	-40+70 °C			
Cover protection category	IP 67 EN 60529			
Environmental protection	RTIII EN 61810-7			
Shock resistance	50 g (500 m/s ²) 11 ms - functional			
Vibration resistance	3 mm DA (constant amplitude) 1055 Hz			
Solder bath temperature				
• for wave	max. 260 °C			
 manual soldering with the tool of 60 W max. 	max. 350 °C			
Soldering time				
• for wave	max. 5 s			
	11dA. 0 5			

The data in bold type relate to the standard versions of the relays. • Values refer to new relays, which have not been used for signals exceeding the maximum 10 mA and/or 6 V (DC or AC). After the current exceeds 10 mA and/or 6 V (DC or AC) relay can not be used for signals with the minimum values indicated in the technical data sheet. • Must release voltage are the values of the operating supply voltage range of opposite polarization, specified in Table 1. • Coil terminals position is indicated by the vertical strip on the relay cover.

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O Coil terminals position is indicated by the vertical strip on the relay cover.

Mounting

Relays RSM850B are designed for direct PCB mounting - THT (Through-Hole Technology).



23.12.2020

Preipol ® s.A.

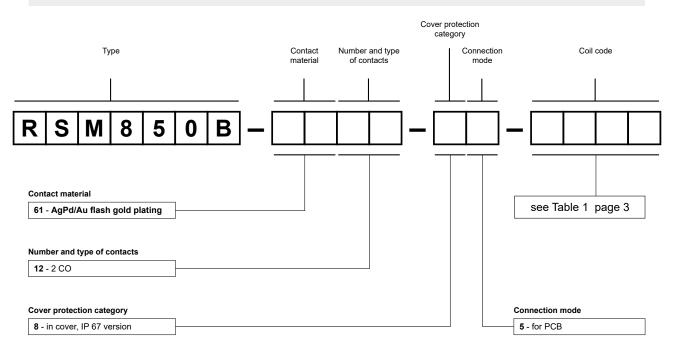
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Coil data - DC voltage version

Table 1

Coil code	Rated voltage V DC	Coil resistance at 20 °C Ω	Acceptable resistance	Coil operating range V DC	
				min. (at 20 °C)	max. (at 20 °C)
1003	3	90	± 10%	2,25	8,7
1005	5	250	± 10%	3,75	14,5
1006	6	360	± 10%	4,50	17,4
1009	9	810	± 10%	6,75	26,1
1012	12	1 440	± 10%	9,00	34,8
1024	24	3 840	± 10%	18,00	57,6

Ordering codes



Example of ordering code:

RSM850B-6112-85-1012

bistable relay **RSM850B** with one coil, for PCB, two changeover contacts, contact material AgPd/Au flash gold plating, coil voltage 12 V DC, in cover IP 67

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

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