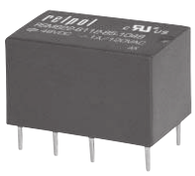
RSM822

subminiature signal relays



 Subminiature monostable relays for switching low loads **DC coils - standard and sensitive of up to 48 V DC**, low coil power 0,20 W (sensitive version) or 0,36 W (standard version) Mounting on printed circuit boards Operation possible at high temperature and in chemical environment Sealed, for wave soldering and cleaning Applications: for telephone equipment, household equipment, office equipment, AV devices, control devices - remote control devices
 Recognitions, certifications, directives: RoHS,

Contact data

Number and type of contacts		2 C/O
Contact material		**AgPd/Au flash gold plating**
Rated / max. switching voltage	AC	120 V / 120 V
Min. switching voltage		1 V
Rated load	AC1	1 A / 120 V AC
	DC1	2 A / 24 V DC
Min. switching current		1 mA
Rated current		2 A
Max. breaking capacity	AC1	120 VA
Min. breaking capacity		1 mW
Contact resistance		≤ 100 mΩ

Coil data

Rated voltage	DC	3 ... 24 V sensitive version 48 V standard version
Must release voltage		DC: ≥ 0,1 U_n
Operating range of supply voltage		see Table 1
Rated power consumption	DC	0,20 W sensitive version 0,36 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	500 V AC type of clearance: micro-disconnection
Contact - coil distance	
clearance	≥ 1,3 mm
creepage	≥ 1,5 mm

General data

Operating / release time (typical values)		8 ms / 4 ms sensitive version 6 ms / 4 ms standard version
Electrical life		
resistive AC1	1 800 cycles/hour	> 10^5 1 A, 120 V AC
Mechanical life	18 000 cycles/hour	> 10^7
Dimensions (L x W x H)		21 x 10,1 x 12,1 mm
Weight		4,8 g
Ambient temperature	operating	-30...+80 °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.

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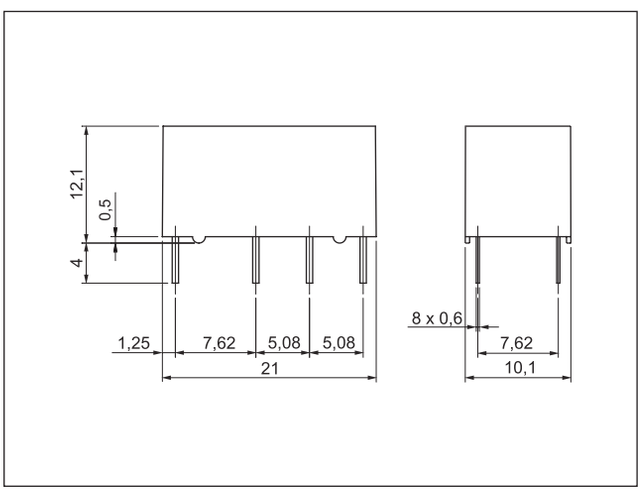
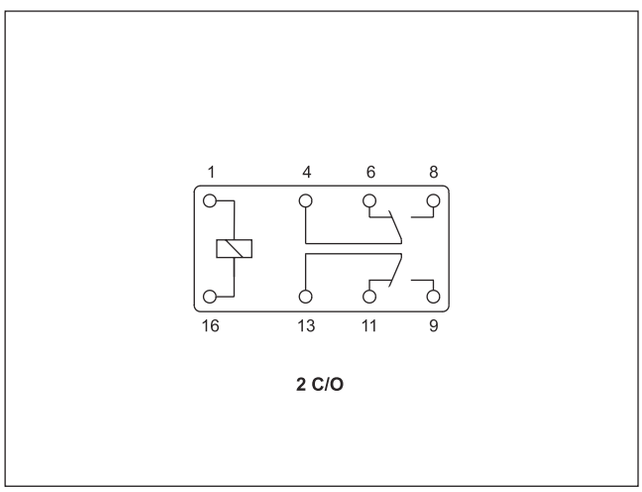
Coil data - DC voltage version — Table 1

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	45	2,25	4,5	200
–	S005	5	125	3,75	7,5	200
–	S006	6	180	4,50	9,0	200
–	S009	9	405	6,75	13,5	200
–	S012	12	720	9,00	18,0	200
–	S024	24	2 880	18,00	36,0	200
1048	–	48	6 400	36,00	72,0	360

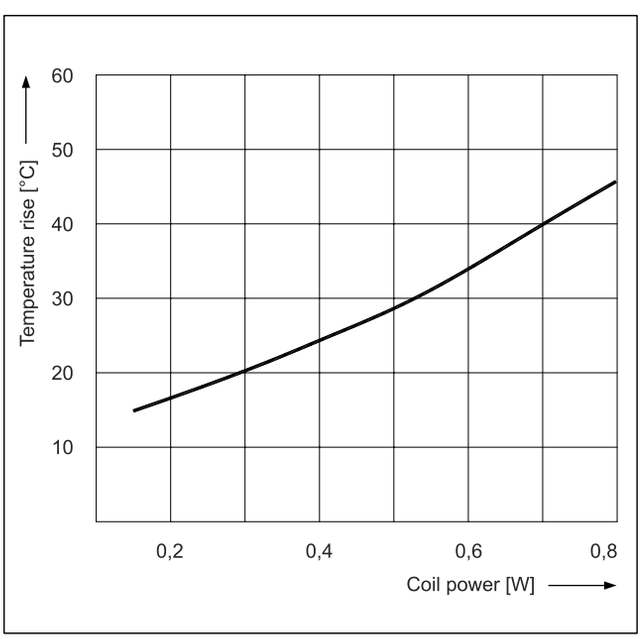
Dimensions



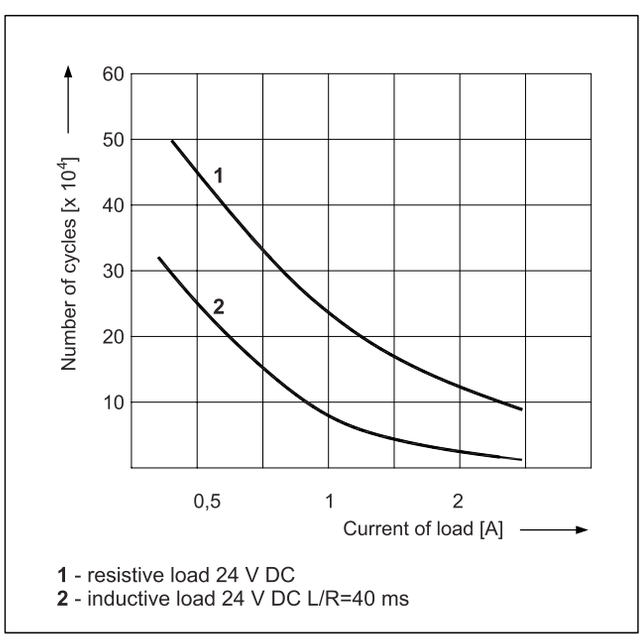
Connection diagram (pin side view)



Coil temperature rise — Fig. 1



Electrical life — Fig. 2



1 - resistive load 24 V DC
2 - inductive load 24 V DC L/R=40 ms

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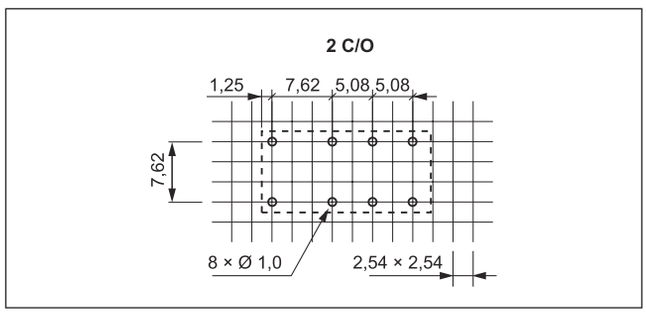
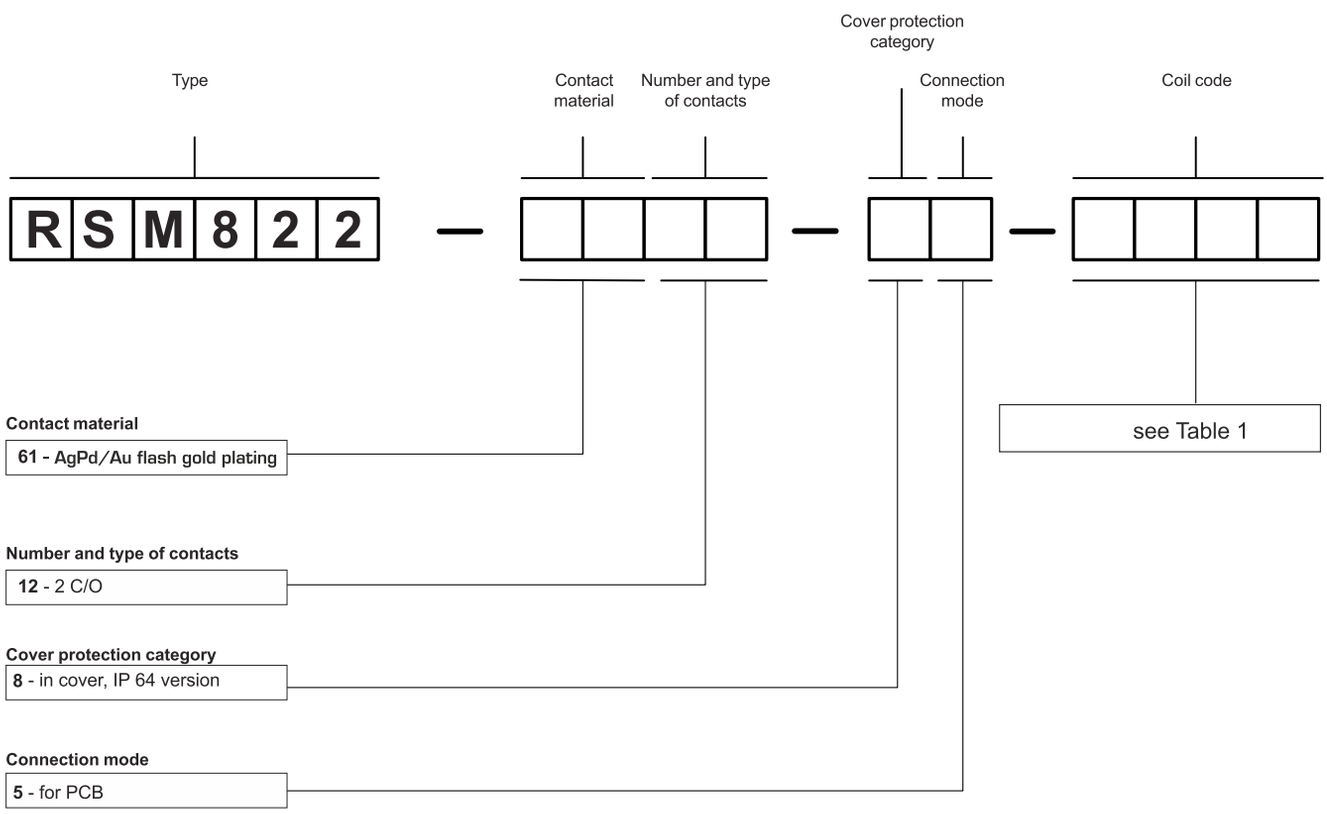
Pinout (solder side view)



Mounting

Relays **RSM822** are designed for direct PCB mounting.

Ordering codes



Example of ordering code:

RSM822-6112-85-S005 relay **RSM822**, for PCB, two changeover contacts, contact material AgNi/Au flash gold plating, sensitive coil voltage 5 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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