- Subminiature, monostable relays
- Very small dimensions
- **DC coils - sensitive of up to 24 V DC**, low coil power 0,15...0,20 W
- Sealed, for wave soldering and cleaning
- Applications: for telecommunication devices, office equipment, industrial control, etc.
- Recognitions, certifications, directives: RoHS,

Contact data

Number and type of contacts		1 CO
Contact material		**Ag/Au 0,2 µm**
Rated / max. switching voltage	AC	120 V / 125 V
Min. switching voltage		5 V
Rated load	AC1	2 A / 120 V AC
	DC1	2 A / 24 V DC
Min. switching current		10 mA
Rated current		2 A
Max. breaking capacity	AC1	240 VA
Min. breaking capacity		50 mW
Contact resistance		≤ 100 mΩ

Coil data

Rated voltage	DC	3 ... 24 V	
Must release voltage		DC: ≥ 0,05 U_n	
Operating range of supply voltage		see Table 1	
Rated power consumption	DC	0,15 W 3 ... 12 V	0,20 W 24 V

Insulation according to PN-EN 60664-1

Dielectric strength		
• between coil and contacts	1 000 V AC	type of insulation: basic
• contact clearance	400 V AC	type of clearance: micro-disconnection
Contact - coil distance		
• clearance	≥ 0,6 mm	
• creepage	≥ 0,6 mm	

General data

Operating / release time (typical values)		5 ms / 5 ms	
Electrical life (number of cycles)			
• resistive AC1	1 800 cycles/hour	> 10^5	2 A, 120 V AC
• resistive DC1	1 800 cycles/hour	> 10^5	2 A, 24 V DC
Mechanical life	18 000 cycles/hour	> 10^7	
Dimensions (L x W x H)		12,6 x 7,8 x 10 mm	
Weight		2,2 g	
Ambient temperature	• operating	-30...+70 °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	

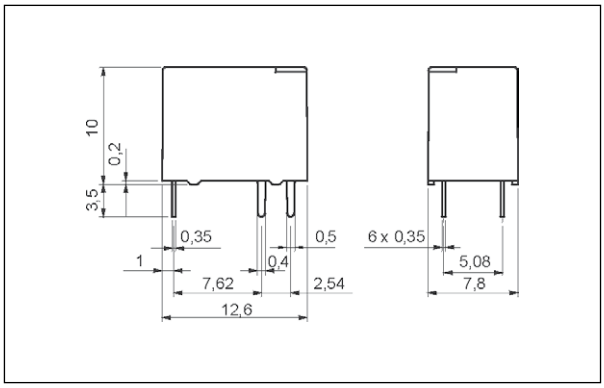
The data in bold type pertain to the standard versions of the relays.

Coil data - DC voltage version, sensitive — Table 1

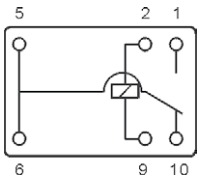
Coil code	Rated voltage V DC	Coil resistance at 20 °C Ω	Acceptable resistance	Coil operating range V DC	
				min. (at 20 °C)	max. (at 20 °C)
S003	3	60	± 10%	2,4	3,9
S005	5	167	± 10%	4,0	6,5
S006	6	240	± 10%	4,8	7,8
S009	9	540	± 10%	7,2	11,7
S012	12	960	± 10%	9,6	15,6
S024	24	2 880	± 10%	18,0	31,2

relpol S.A.
Export Sales Department phone +48 68 47 90 832, 951 ï e-mail: export@relpol.com.pl www.relpol.com.pl

Dimensions



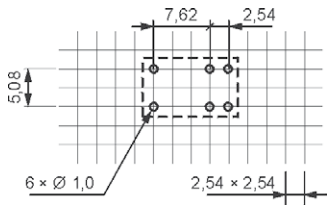
Connection diagram (pin side view)



1 CO

Pinout (solder side view)

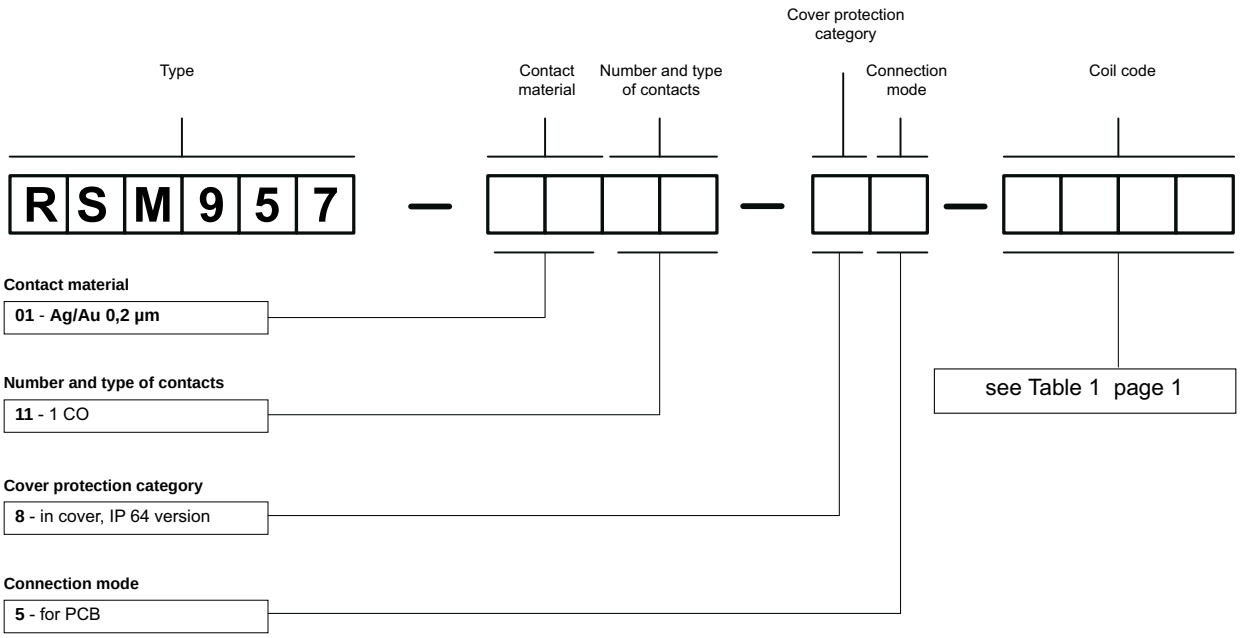
1 CO



Mounting

Relays **RSM957** are designed for direct PCB mounting.

Ordering codes



Example of ordering code:

RSM957-0111-85-S005 relay **RSM957**, for PCB, one changeover contact, contact material Ag/Au 0,2 µm, sensitive coil voltage 5 V DC, in cover IP 64

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.

relpol S.A.
Export Sales Department phone +48 68 47 90 832, 951 ï e-mail: export@relpol.com.pl www.relpol.com.pl