


R30

industrial relays of small dimensions



- High switching capacity up to 30 A
- For PCB
- Applications: systems of heating, ventilation; automotive electric systems; photoelectric systems; other electric applications
- Recognitions, certifications, directives: RoHS, 

Contact data

Number and type of contacts		1 CO, 1 NO	
Contact material		AgSnO₂	
Rated / max. switching voltage	AC	240 V / 250 V	
Min. switching voltage		10 V	
Rated load	AC1	1 CO: 20 A / 10 A (NO/NC) / 240 V AC	1 NO: 30 A / 240 V AC
	DC1	1 CO: 20 A / 10 A (NO/NC) / 30 V DC	1 NO: 30 A / 30 V DC
Min. switching current		10 mA	10 mA
Rated current		1 CO: 20 A / 10 A (NO/NC)	1 NO: 30 A
Max. breaking capacity	AC1	1 CO: 4 800 VA	1 NO: 7 200 VA
	AC3	0,5 HP 240 V AC	0,5 HP 240 V AC
Min. breaking capacity		0,1 W	
Contact resistance		≤ 100 mΩ	
Coil data			
Rated voltage	DC	12 ... 24 V	
Must release voltage		DC: ≥ 0,05 U _n	
Operating range of supply voltage		see Table 1	
Must operate voltage		≤ 0,8 U _n	
Rated power consumption	DC	1,0 W	
Insulation according to PN-EN 60664-1			
Insulation rated voltage		250 V AC	
Overvoltage category		II	
Flammability degree		V-0 UL94	
Insulation resistance		> 100 MΩ	500 V DC, 60 s
Dielectric strength	• between coil and contacts • contact clearance	1 500 V AC	type of insulation: basic
		1 500 V AC	type of clearance: micro-disconnection
General data			
Operating / release time (typical values)		15 ms / 10 ms	
Electrical life	• resistive AC1 1 200 cycles/hour	10 ⁵	1 NO: 30 A, 240 V AC
		1 CO: 20 A / 10 A (NO/NC), 240 V AC	
Mechanical life (cycles)		> 10 ⁷	
Dimensions (L x W x H)		32,2 x 27,5 x 20,5 mm	
Weight		22 g	
Ambient temperature	• operating	-30...+55 °C	
Cover protection category		IP 64	PN-EN 60529
Shock resistance		5 g	
Vibration resistance		1,5 mm DA (constant amplitude)	10...55 Hz

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

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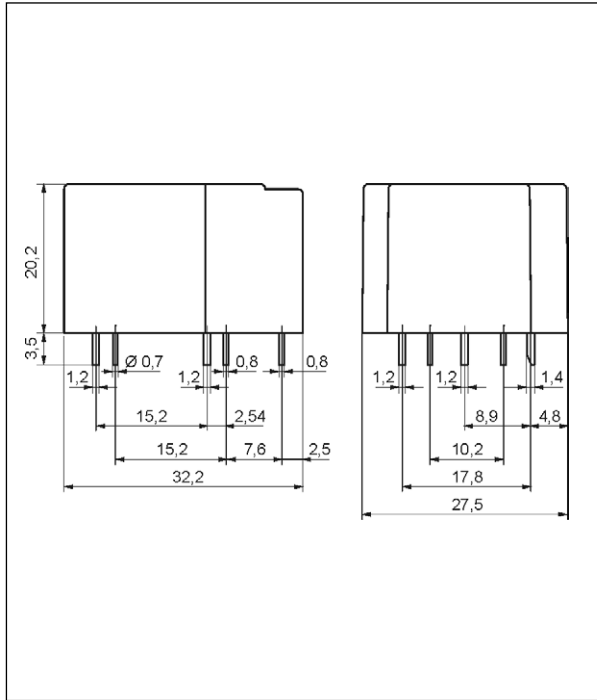
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Coil data - DC voltage version

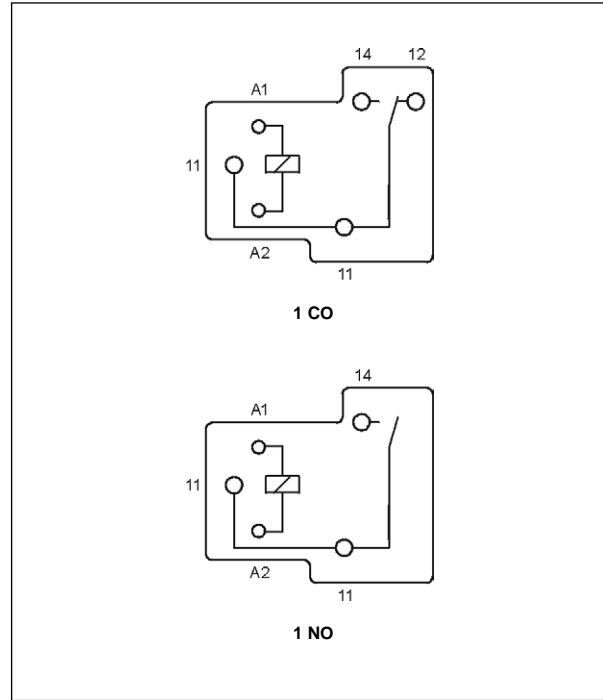
Table 1

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)
1012	12	155	$\pm 10\%$	9,6	18
1024	24	660	$\pm 10\%$	19,2	36

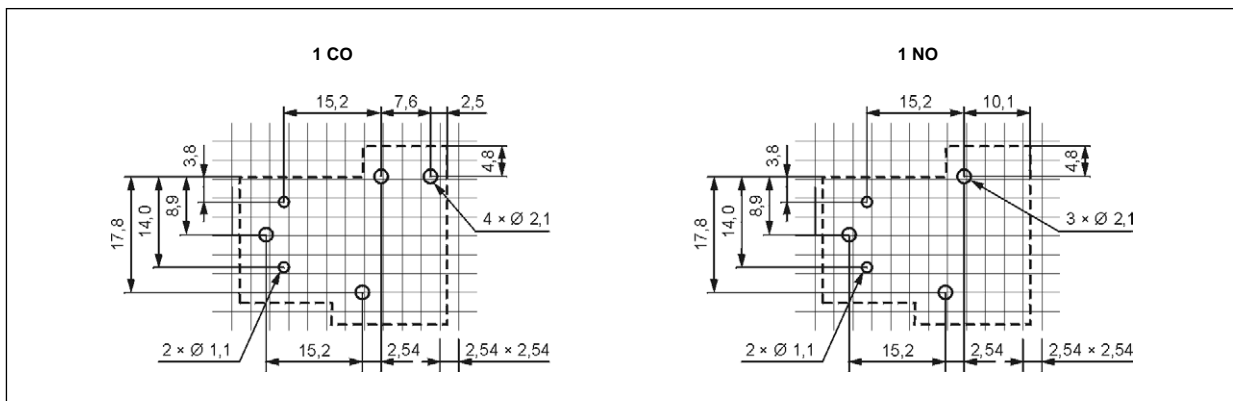
Dimensions



Connection diagrams (pin side view)



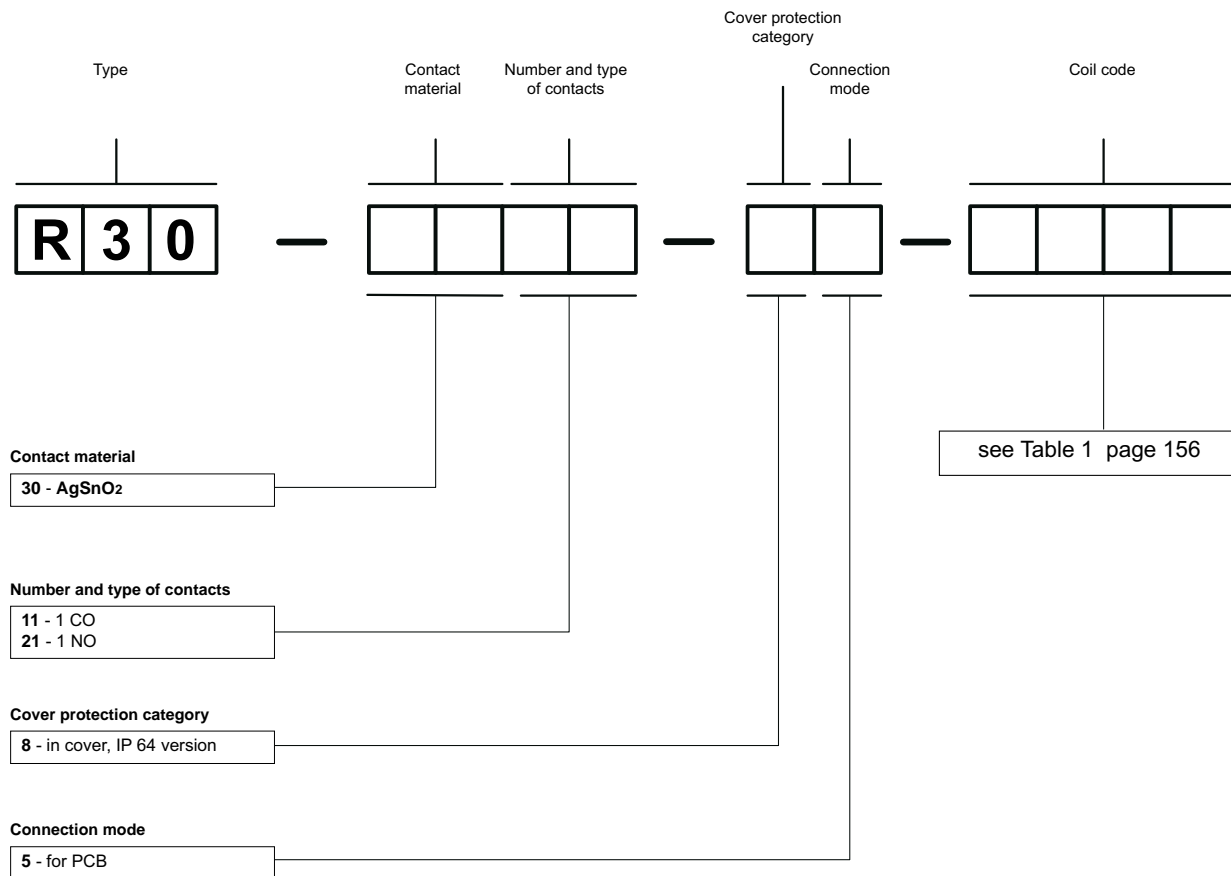
Pinout (solder side view)



Mounting

Relays **R30** are designed for direct PCB mounting.

Ordering codes



Examples of ordering codes:

R30-3011-85-1012

relay **R30**, for PCB, one changeover contact, contact material AgSnO₂, coil voltage 12 V DC, in cover IP 64

R30-3021-85-1024

relay **R30**, for PCB, one normally open contact, contact material AgSnO₂, coil voltage 24 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.