

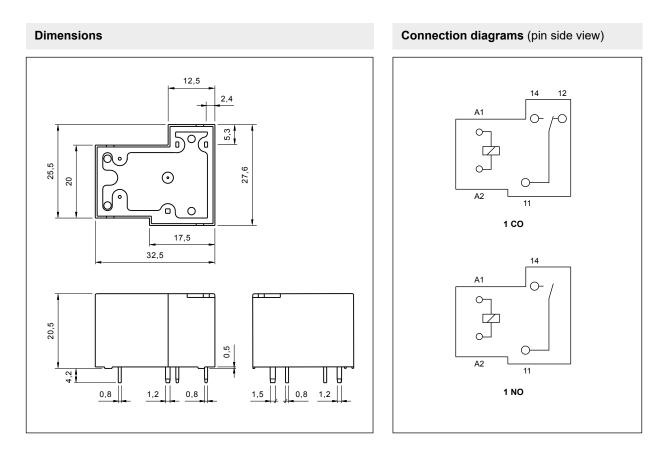
- High load 30 A DC coils of up to 110 V DC, low coil power 0,9 W, insulation class F: 155 °C
- For PCB Small dimensions, light weight
- High shock and vibration resistance
- High quality, long life
- Applications: for automobile, machine, electronic equipment,
  - air conditioner, household appliance
- Recognitions, certifications, directives: RoHS,

Contact data	• Recognitions, certifications, directives: RoHS, CRUs [][				
Number and type of contacts	1 CO, 1 NO				
Contact material	AgSnO <sub>2</sub> , AgCdO <b>0</b>				
Rated / max. switching voltage AC	240 V / 300 V				
DC	110 V / 110 V				
Min. switching voltage	10 V				
Rated load AC <sup>2</sup>	1 CO: 30 A / 20 A (NO/NC) / 240 V AC 1 NO: 30 A / 240 V AC				
DC	1 CO: 30 A / 20 A (NO/NC) / 14 V DC 1 NO: 30 A / 14 V DC				
Rated current	30 A				
Max. breaking capacity AC	1 CO: 7 200 VA / 4 800 VA (NO/NC) 1 NO: 7 200 VA				
Contact resistance	≤ 30 mΩ				
Coil data					
Rated voltage DC	5, 12, 24, 48, 110 V				
Must release voltage	DC: ≥ 0,1 U <sub>n</sub>				
Operating range of supply voltage	see Table 1				
Must operate voltage	≤ 0,75 Un				
Rated power consumption DC	0,9 W				
Insulation according to EN 60664-1					
Insulation rated voltage	500 V AC				
Overvoltage category	II				
Flammability class	V-0 UL 94				
Insulation resistance	> 1 000 MΩ 500 V DC, 60 s				
Dielectric strength					
<ul> <li>between coil and contacts</li> </ul>	2 500 V AC type of insulation: basic				
contact clearance	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/hou	r 10 <sup>5</sup> 1 CO: 30 A / 20 A (NO/NC), 240 V AC 1 NO: 30 A, 240 V AC				
resistive DC1     1 200 cycles/hou					
Mechanical life (cykle)	107				
Dimensions (L x W x H)	32,5 x 27,6 x 20,5 mm				
Weight	30 g				
Ambient temperature					
(non-condensation and/or icing) • operating	-55+100 °C				
Cover protection category	IP 64 or <b>IP 67</b> EN 60529				
Environmental protection	RTII or RTIII EN 61810-7				
Shock resistance	20 g				
Vibration resistance	1,5 mm DA (constant amplitude) 1055 Hz				
Solder bath temperature	max. 260 °C				
Soldering time	max. 5 s				

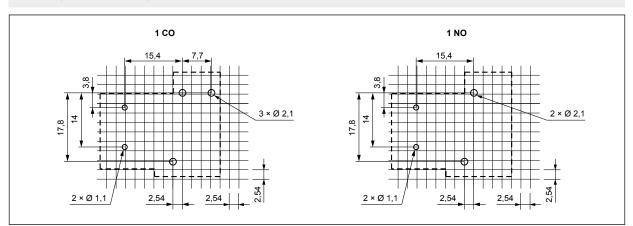
The data in bold type relate to the standard versions of the relays. •• AgCdO contact material in electrical contacts is only for use in electrical and electronic equipment (EEE) in compliance with directive RoHS2 2011/65/EU in restricted categories of EEE covered by this directive. Relpol S.A. is not responsible for usage relays with AgCdO contact material in categories of EEE where it is prohibited by the directive RoHS2 2011/65/EU.

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# **R30N** industrial relays of small dimensions



## Pinout (solder side view)



## Mounting

Relays R30N are designed for direct PCB mounting.

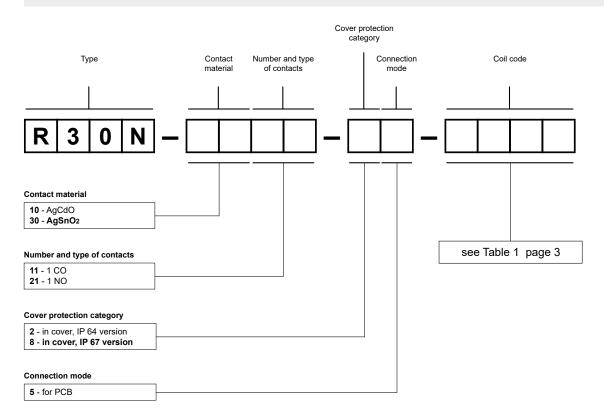
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#### Coil data - DC voltage version

Coil code Rated voltage V DC	•	Coil resistance at 20 °C	Acceptable resistance	Coil operating range V DC	
	Ω		min. (at 20 °C)	max. (at 20 °C)	
1005	5	28	± 10%	3,8	6,5
1012	12	160	± 10%	9,0	15,6
1024	24	640	± 10%	18,0	31,2
1048	48	2 560	± 10%	36,0	62,4
1110	110	13 445	± 10%	82,5	143,0

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

### Ordering codes



Examples of ordering codes:

R30N-3011-85-1012

12 V DC, in cover IP 67R30N-1021-25-1024relay R30N, for PCB, one normally open contact, contact material AgCdO, 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.

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relay R30N, for PCB, one changeover contact, contact material AgSnO<sub>2</sub>, coil voltage



Table 1