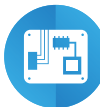


# Subminiature DIL relays 2 A



Electronic  
circuit boards



Hi-Fi systems



Printers



Toys



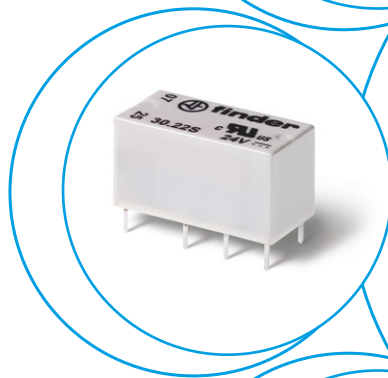
Medical and  
dentistry



Hoists and  
cranes



Door and  
gate openers



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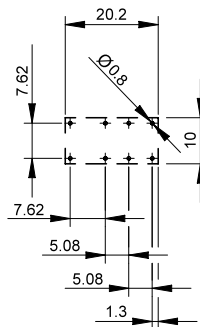
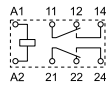
**Printed circuit mount  
2 A signal relay**

- 2 Pole changeover contacts Low level switching capability
- Subminiature - industry standard DIL package
- Sensitive DC coil - 200 mW
- Wash tight: RT III
- Cadmium Free contact material

**30.22**



- Low coil power
- Au clad contacts
- PCB mount



Copper side view

For outline drawing see page 5

**Contact specification**

Contact configuration		2 CO (DPDT)
Rated current/Maximum peak current	A	2/3
Rated voltage/ Maximum switching voltage	V AC	125/250
Rated load AC1	VA	125
Rated load AC15 (230 V AC)	VA	25
Single phase motor rating (230 V AC)	kW	—
Breaking capacity DC1: 24/110/220 V	A	2/0.3/—
Minimum switching load	mW (V/mA)	10 (0.1/10)
Standard contact material		AgNi + Au

**Coil specification**

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	—
	V DC	5 - 6 - 9 - 12 - 24 - 48
Rated power AC/DC	VA (50 Hz)/W	—/0.2
Operating range	AC	—
	DC	See table page 5
Holding voltage	AC/DC	—/0.35 U <sub>N</sub>
Must drop-out voltage	AC/DC	—/0.05 U <sub>N</sub>

**Technical data**

Mechanical life AC/DC	cycles	—/10 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	100 · 10 <sup>3</sup>
Operate/release time	ms	6/4
Insulation between coil and contacts (1.2/50 μs)	kV	1.5
Dielectric strength between open contacts	V AC	750
Ambient temperature range	°C	−40...+85
Environmental protection		RT III

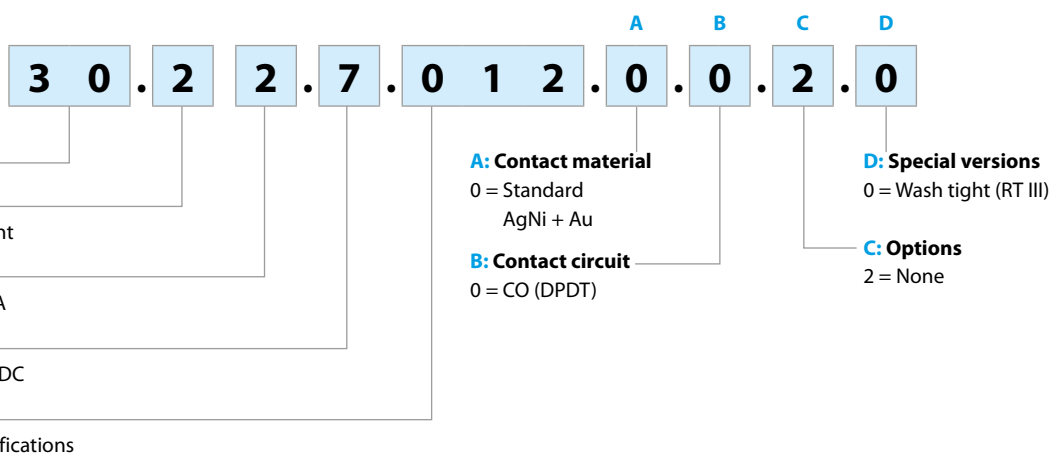
**Approvals** (according to type)



## Ordering information

Example: 30 series, PCB relay, 2 CO (DPDT) - 2 A contacts, 12 V sensitive DC coil.

A



## Technical data

### Insulation according to EN 61810-1

Nominal voltage of supply system	V AC	125/250
Rated insulation voltage	V AC	250
Pollution degrees		1

### Insulation between coil and contact set

Type of insulation		Basic
Overvoltage category		I
Rated impulse voltage	kV (1.2/50 µs)	1.5
Dielectric strength	V AC	1000

### Insulation between adjacent contacts

Type of insulation		Basic
Overvoltage category		I
Rated impulse voltage	kV (1.2/50 µs)	1.5
Dielectric strength	V AC	1500

### Insulation between open contacts

Type of disconnection		Micro-disconnection
Dielectric strength	V AC/kV (1.2/50 µs)	750/1

### Insulation between coil terminals

Rated impulse voltage (according to EN 61180)	kV (1.2/50 µs)	2
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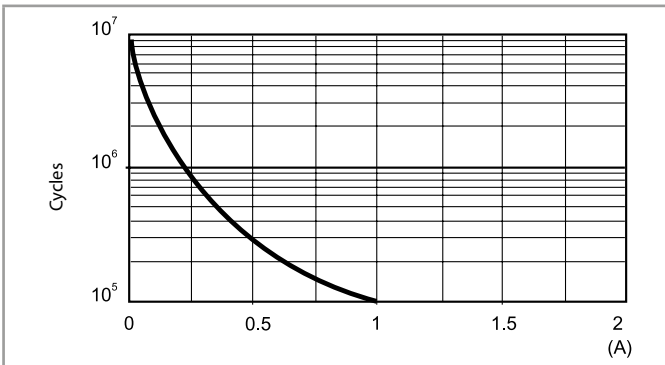
### Other data

Bounce time: NO/NC	ms	2/6
Vibration resistance (10...38)Hz	g	10
Shock resistance	g	10
Power lost to the environment	without contact current W	0.2
	with rated current W	0.4
Recommended distance between relays mounted on PCB	mm	≥ 5

A

### Contact specification

F 30 - Electrical life (AC1) v contact current (125 V)



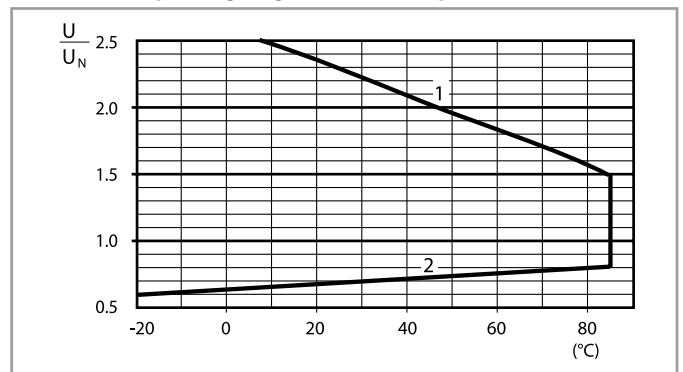
Note:  
The rated current of 2 A corresponds to the limiting continuous current.

### Coil specifications

DC coil data - 0.2 W sensitive

Nominal voltage $U_N$	Coil code	Operating range		Resistance $R$	Rated coil consumption $I$ at $U_N$
		$U_{min}$	$U_{max}$		
V		V	V	$\Omega$	mA
5	7.005	3.7	7.5	125	40
6	7.006	4.5	9	180	33
9	7.009	6.7	13.5	405	22
12	7.012	8.4	18	720	16
24	7.024	16.8	36	2880	8.3
48	7.048	33.6	72	11520	4.8

R 30 - DC coil operating range v ambient temperature



1 - Max. permitted coil voltage.  
2 - Min. pick-up voltage with coil at ambient temperature.

### Outline drawing

Type 30.22

