

Industrial Relay Type RCP Monostable

CARLO GAVAZZI



- 8 or 11-pin socket mounting
- 2 or 3 change over contacts
- Long life (minimum 100.000 electrical operations)
@ 10A 250VAC /30VDC resistive load
- AC coils 6 to 230VAC
- DC coils 6 to 110VDC
- Matched sockets available
- Standard with LED, Push arm and Flag
- IP 40
- Conform to CE low voltage directive
- TÜV, UL, CSA, IMQ, RINA (marine) approved

Product Description

The RCP relay can be used for a wide range of industrial applications.

Available in 2 or 3 change-over contact configuration, Octal or Undecal version.

Ordering Key

RCP 8 002 24VDC /1

Type _____
No. of pins _____
Contact code _____
Coil code _____
Options _____

Approvals



Box content: 25 relays
Box size: (W 215 x D 205 x H 80) mm Weight: 2400g
(W 8.46 x D 8.07 x H 3.15) inches Weight: 84.65oz

Type Selection

Contact configuration	Contact rating	Contact code
2 change over contacts (DPDT {2-form C})	10A	002
3 change over contacts (3PDT {3-form C})	10A	003

Coil Characteristics, DC Standard Coils 1.5W

Coil Code	Nominal voltage VDC	@ +20°C (+68°F)		@ +40°C (+104°F)		Coil resistance Ω
		Pick-up voltage VDC	Drop-out voltage VDC	Pick-up voltage VDC	Drop-out voltage VDC	
6VDC	6	4.8	0.6	5.2	0.6	23.5 ±10%
12VDC	12	9.6	1.2	10.3	1.3	120 ±10%
24VDC	24	19.2	2.4	20.7	2.6	470 ±10%
48VDC	48	38.4	4.8	41.4	5.1	1800 ±15%
60VDC	60	48.0	6.0	48.6	6.4	2780 ±15%
100VDC	100	80.0	10.0	86.4	10.8	7500 ±15%
110VDC	110	88.0	11.0	95.0	11.8	7500 ±15%

Coil Characteristics, AC Standard Coils 2.7VA

Coil Code	Nominal Voltage VAC	@ +20°C (+68°F)		@ +40°C (+104°F)		Coil resistance Ω
		Pick-up voltage VAC	Drop-out voltage VAC	Pick-up voltage VAC	Drop-out voltage VAC	
6VAC	6	4.8	1.8	5.2	1.9	3.9 ±10%
12VAC	12	9.6	3.6	10.3	3.8	16.8 ±10%
24VAC	24	19.2	7.2	20.7	7.7	72 ±10%
48VAC	48	38.4	14.4	41.4	15.5	280 ±15%
115/120VAC	115/120	88.0	36.0	95.0	38.8	1700 ±15%
230VAC	230	176.0	72.0	190.0	77.7	6500 ±15%

Coil operating range: see diagram n° 1 pag. 14

Options

Nil = Standard with Push Arm -LED (A1+) (A2-) Flag	/1 = Without LED /2 = Without Flag	/5 = Gilded Contacts Au > 0.5µm
/0 = Diode against polarity inversion + free-wheeling Diode (A1+) (A2-)	/3 = Without Push Arm /4 = Gilded Contacts Au 5µm	/6 = Free-Wheeling Diode (A1+) (A2-) /7 = Free-Wheeling Diode (A1-) (A2+)

Contact Characteristics

Arrangement	002 / 003	Current	
Contact rating (with resistive load)	10A - 250VAC / 30VDC	Max. switching current	10A
UL rating	10A - 250VAC / 30VDC 1/3HP @ 240VAC 1/3HP @ 120VAC 1/2HP @ 277VAC	Initial contact resistance	100mΩ (@ 1A 24VDC)
Standard rating	10A - 250VAC / 30VDC	Max. switch. voltage	500VAC / 240VDC
Max. rating	10A - 250VAC / 30VDC	Max. switch. power resistive	2500VA / 300W
Material	AgSnO ₂	Minimum Current	
		Min. applicable load	5mA @ 12VDC
		/4 and /5 versions	1mA @ 6VDC
		Life	
		Electrical life	1x10 ⁵ ops
		Mechanical life	1x10 ⁷ ops

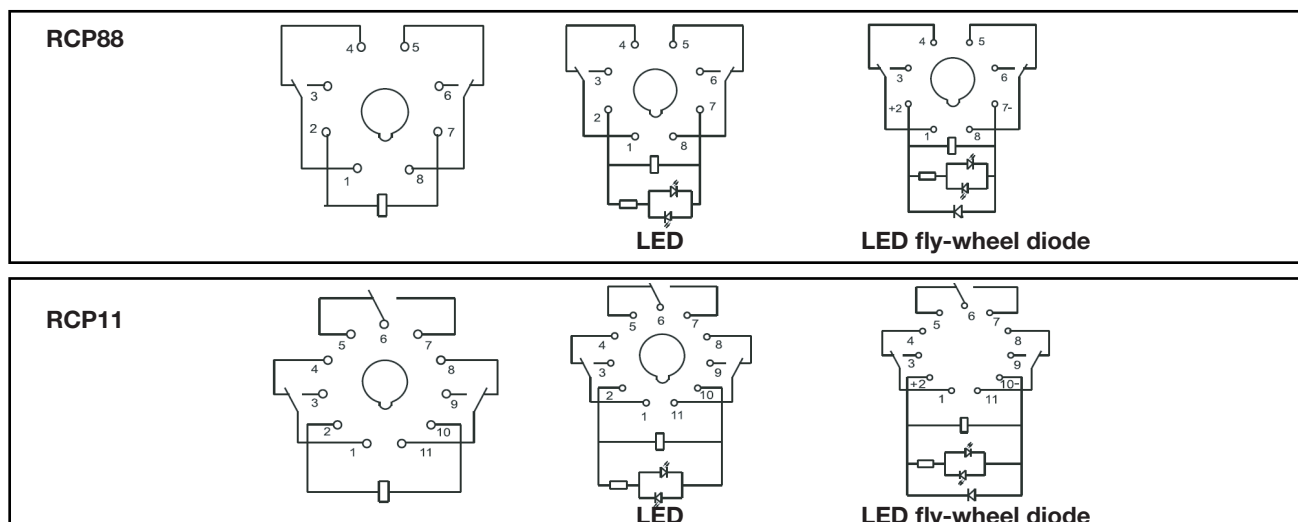
Insulation

Test Voltage (1 min.)		Insulation	
Between coil and contacts	2500VAC	according to EN61810-5	
Between open contacts	1500VAC	Rated insulation voltage	250V
Contact/Contact	2000VAC	Impulsive insulation voltage	3.6kV
Initial insulation resistance	1000M Ω - 500DC	Pollution degree	2
		Overvoltage category	III

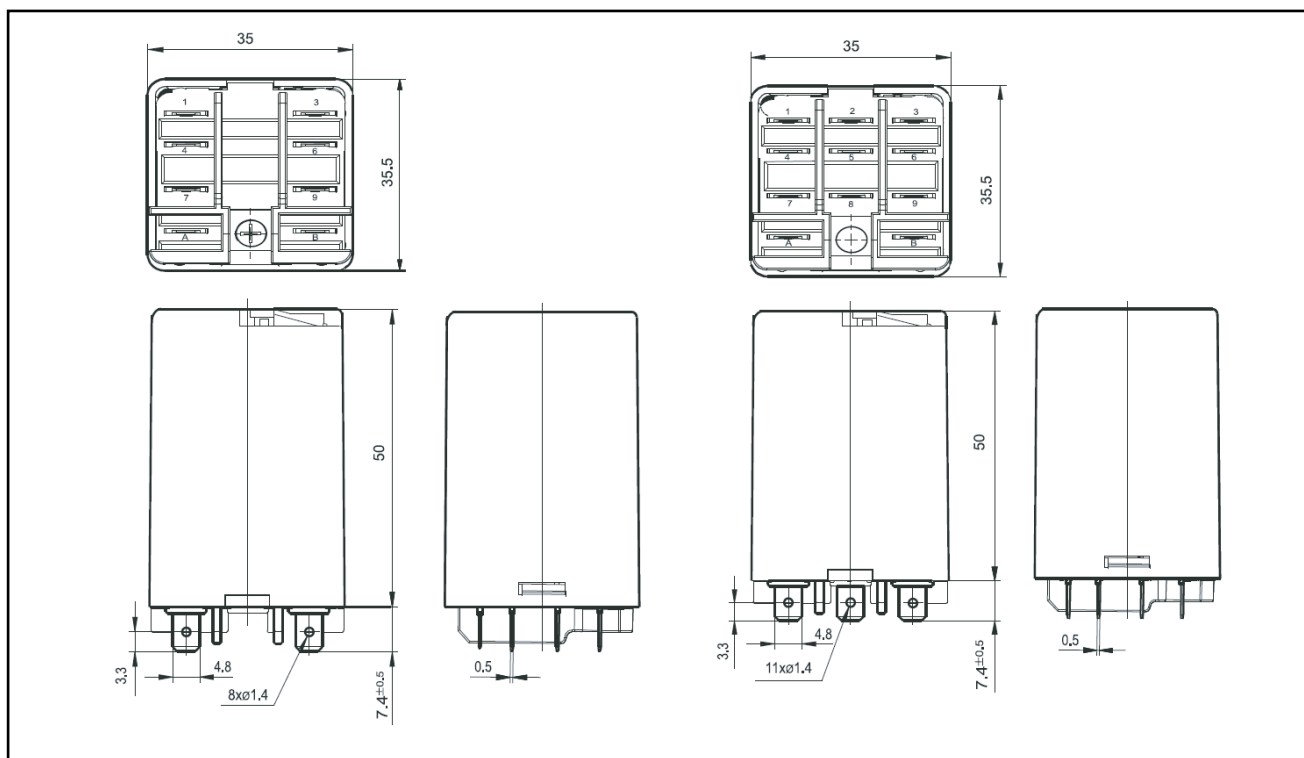
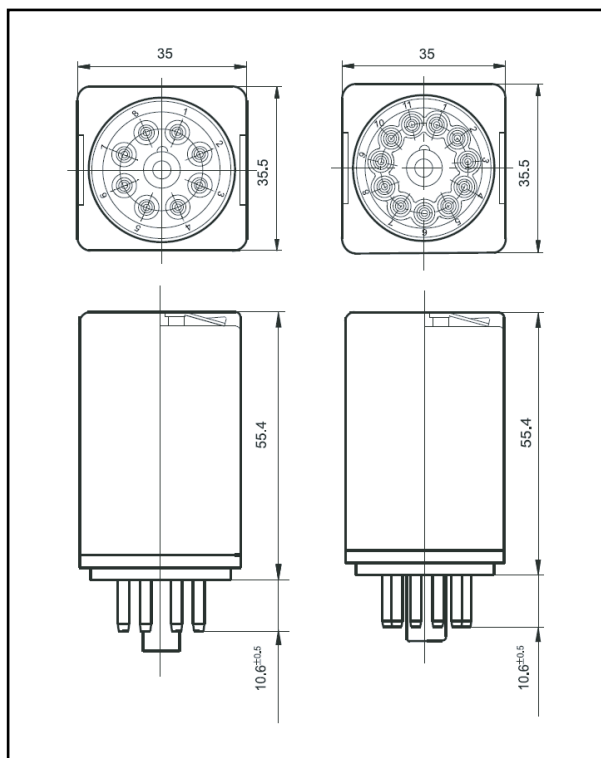
General Data

Nominal coil power	DC 1.4 W AC 3.0 VA	Shock resistance	
Operating time (At nominal voltage)	25ms max.	Functional	98m/s ² /10G
Release time (At nominal voltage)	25ms max.	Destructive	980m/s ² /100G
Temperature rise (At nominal voltage)	+70°C (+44.6°F)	Humidity	98%, +40°C% (+104°F%)
Ambient temperature	-40° to +55°C (-40° to +131°F)	Termination	Octal/Undecal-type plug-in
Vibration resistance	10 to 55Hz 1.5mm (0.059")	Construction	Dust cover
		Weight	~85g (~2.998oz)

Wiring Diagrams



Dimensions mm/inches



Bases and Sockets

DIN rail sockets codes are **ZPD8A**, **ZP11A**, **ZPD8**, **ZPD11**, **ZPD8XA**, **ZPD11XA**, **ZPD9A** and **ZPD12A** details and specifications from page 20 to 27 of industrial relays catalogue.
PCB and Panel Soldering sockets codes are **ZC8**, **ZC11** and **ZSN8**, **ZSN11** details and specifications from page 28 to page 29 of industrial relays catalogue.

Industrial Relay
Type RCP
Monostable



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