

GR Series Small Intermediate Relay



Features

- Small size and high rated capacity.
- Standard test button and mechanical indicator window.
- Standard LED status indicator.
- A variety of sockets and accessories to choose.
- Comply with CE and CQC certification.

Application Range

GR Series is suitable for the expansion, amplification, isolation and conversion of signals in various mechanical equipment and process control systems in the industrial field.

Contact characteristics

Contact form	2CO	4CO
Rated load (resistance)	5A 250VAC/30VDC	
Max. switching capacity	1250VA/150W	

Technical Parameters

Contact material	Silver alloy	
Contact resistance	≤ 50mΩ (1A 6VDC)	
Action time	20ms	
Release time	20ms	
Insulation resistance	1000MΩ (500VDC)	
Dielectric Withstand Voltage	Same Poles : 1000VAC 1min	
	Different poles : 1000VAC 1min	
	Contact and Coil : 2000VAC 1min	
Vibration	10Hz-55Hz, 1mm	
Shock	Stable work	98m/s ²
	Damage limit	980m/s ²
Life	Mechanical	1×10 ⁷ Times
	Electric	4×10 ⁵ Times
Working Temperature	-55 °C ~ 70 °C	
Humidity	30% ~ 85% RH	
Installation Method	Plug-in	
Weight	Approx. 35g	
Certifications	CE, CQC, RoHS	

Relay Selection

Contact form	Voltage	Current	LED	Mechanical Indicator	Test button	Model Number
2CO	12	5A	YES	YES	YES	GR-2C-DC12V
	24	5A	YES	YES	YES	GR-2C-DC24V
	48	5A	YES	YES	YES	GR-2C-DC48V
	110	5A	YES	YES	YES	GR-2C-DC110V
	220	5A	YES	YES	YES	GR-2C-DC220V
	12	5A	YES	YES	YES	GR-2C-AC12V
	24	5A	YES	YES	YES	GR-2C-AC24V
	48	5A	YES	YES	YES	GR-2C-AC48V
	110	5A	YES	YES	YES	GR-2C-AC110V
	230	5A	YES	YES	YES	GR-2C-AC230V
	380	5A	YES	YES	YES	GR-2C-AC380V
	12	5A	YES	YES	YES	GR-4C-DC12V
	24	5A	YES	YES	YES	GR-4C-DC24V
	48	5A	YES	YES	YES	GR-4C-DC48V
4CO	110	5A	YES	YES	YES	GR-4C-DC110V
	220	5A	YES	YES	YES	GR-4C-DC220V
	12	5A	YES	YES	YES	GR-4C-AC12V
	24	5A	YES	YES	YES	GR-4C-AC24V
	48	5A	YES	YES	YES	GR-4C-AC48V
	110	5A	YES	YES	YES	GR-4C-AC110V
	230	5A	YES	YES	YES	GR-4C-AC230V
	380	5A	YES	YES	YES	GR-4C-AC380V

Coil resistance

DC

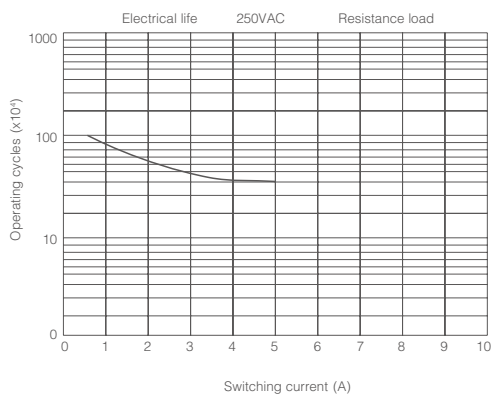
Rated voltage (V)	Coil resistance (Ω) $\pm 10\%$ at 23 °C
12	160
24	630
48	2,600
110	11,000
220	42,000

Coil characteristics

Max. sust. Voltage 23 °C	110%
Pull-in voltage 23 °C	75%
Release voltage 23 °C	10%
Rated Power	0.9W

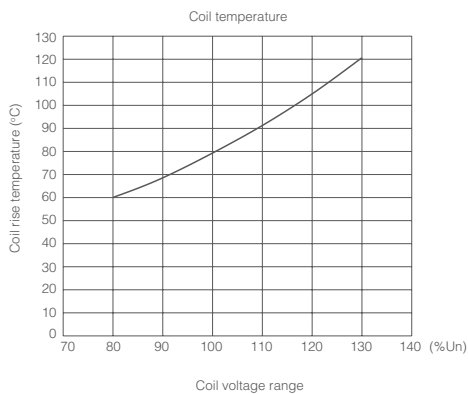
Performance curve

2CO Electrical life curve



Performance curve

2CO coil temperature graph



Coil resistance

AC

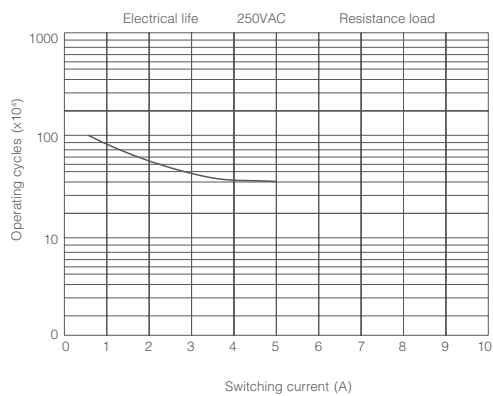
Rated voltage (V)	Coil resistance (Ω) $\pm 10\%$ at 23 °C
12	40
24	160
48	600
110	3,750
230	15,000
380	42,000

Coil characteristics

Max. sust. Voltage 23 °C	110%
Pull-in voltage 23 °C	80%
Release voltage 23 °C	30%
Rated Power	1.2VA

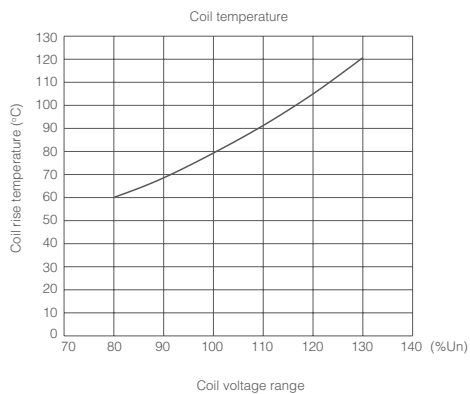
Performance curve

2CO Electrical life curve



Performance curve

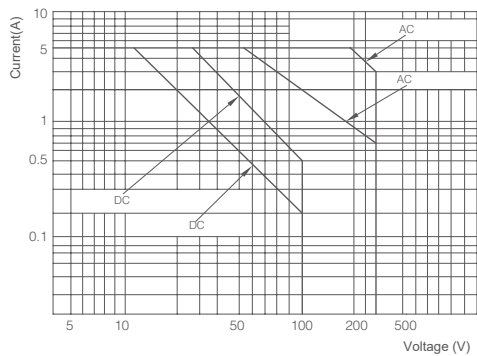
4CO coil temperature graph



GR Series Small Intermediate Relays

Performance curve

Maximum power switching diagram

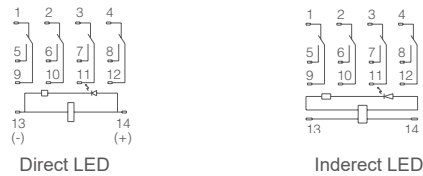


Wiring diagram

2CO

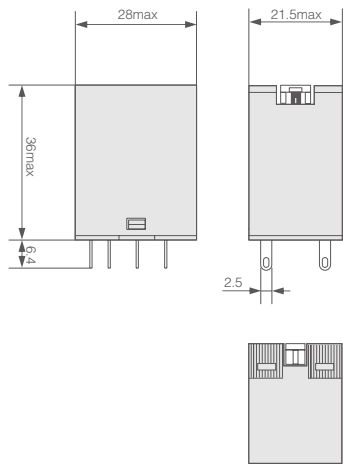


4CO



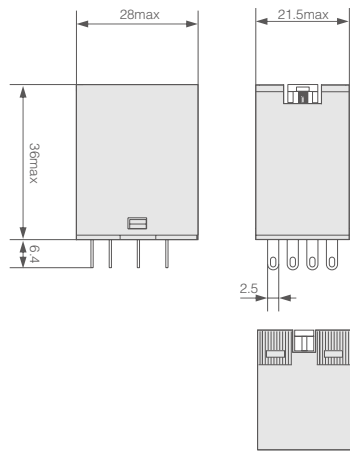
Dimensions

2CO



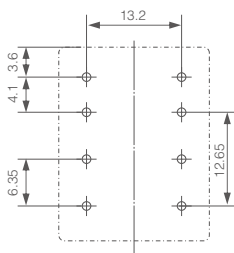
Dimensions

4CO



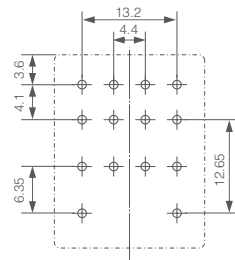
Mounting hole size chart

2CO



Mounting hole size chart

4CO



Remarks:

- (1) The dimensions of the product part are not dimensioned. When the dimension is 1mm, the tolerance is $\pm 0.2\text{mm}$; when the dimension is between (1~5)mm, the tolerance is $\pm 0.3\text{mm}$; when the dimension is $>5\text{mm}$, The tolerance is $\pm 0.4\text{ mm}$.
- (2) The dimension tolerance of the mounting hole size is $\pm 0.1\text{mm}$.