



Features

- 200A contact switching capability.
- Low coil power consumption and Pulse driven
- Dielectric Strength of 4KV between coil and contacts
- Excellent anti shock ability and high reliability
- Both single and dual coil relay available
- Environmental friendly product (RoHS Compliant)
- Compliance with standard of ANSI C 12.1.
(12KA rms fault current carrying capacity)

Contact Capacity

Model	SY37
Nominal switching capacity (res. load)	200A 240VAC
Max. switching current	200A
Max. switching voltage	240VAC
Max. switching power	48,000 VA

Characteristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	2mΩ Max.	
Operate time (at nominal volt.)	30msec. Max.	
Release time (at nominal volt.)	30msec. Max.	
Initial insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts:	AC1,000V, 50/60Hz 1Min.
	Between coil and contact:	AC4,000V, 50/60Hz 1Min.
Vibration resistance	Functional	10 ~ 60Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 60Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 3,600 ops./h)	100,000 cycles
	Electrical (at 600 ops./h)	10,000 cycles
Ambient temperature	-40°C ~ +70°C (no condensation)	
Weight	Approx. 460g	

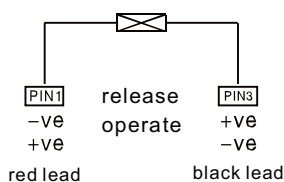
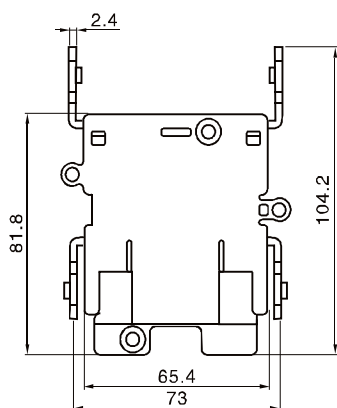
Coil Data (at 20°C)

Nominal voltage (VDC)	Single coil resistance ±10% (Ω)	Dual coil resistance ±10% (Ω)		Operate voltage (Max.)	Release voltage (Max.)	Pulse duration (ms)	Standard Nominal operating power
12	7.5	-	-	80 % of nominal voltage	80 % of nominal voltage	100 Min.	single:19.2W dual:24W dual:30W
24	30	-	-				
12	-	4.8	4.8				
24	-	19.2	19.2				

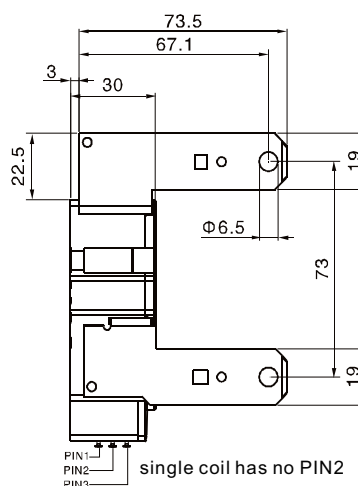
Ordering Information

Nomenclature							
SY37	-200	-2	12	D	M	2	R-XX
Special Parameter : Nil-Standard type,XX-Customized Requirement							
Polarity : Nil-Positive polarity, R-Reverse polarity							
Coil Type:1-Single coil,2-Dual coils							
Contact Form : M-Form A,B-FormB							
Coil Power : D:Standard type -Single/Dual:19.2W/24.0W or 30.0W							
Coil Voltage (VDC) : 12, 24							
Number of Poles : 2-2 Pole							
Switching Capacity: 200:200A							
Type Designation : SY37							

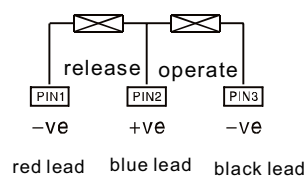
Outline Dimensions, Wiring Diagram, Mounting Holes(unit : mm)



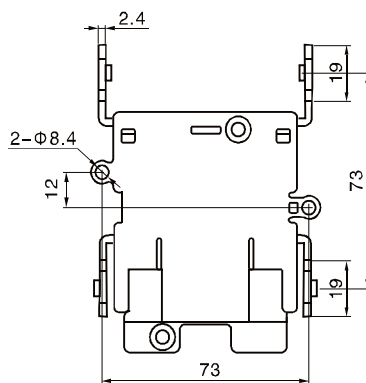
wiring diagram of single coil



single coil has no PIN2



wiring diagram of dual coils



Mounting Holes

Unless otherwise specified:

If dimension < 1mm, tolerance: ±0.2mm;

If dimension 1~5mm, tolerance: ±0.3mm;

If dimension > 5mm, tolerance: ±0.4mm.

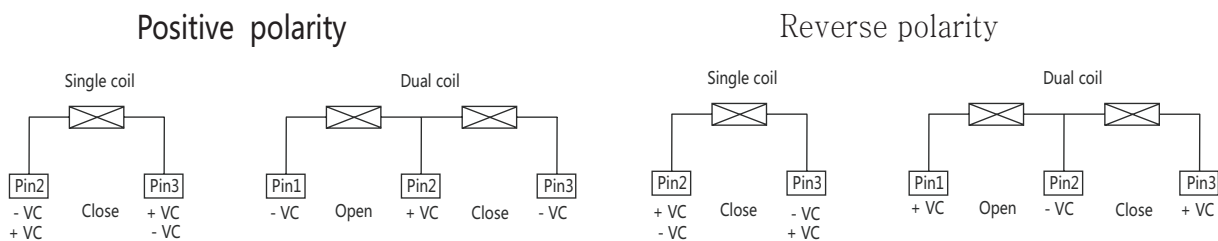
Note: 1. Extended terminal dimension is dimension before soldering.

2. Tolerance of mounting holes: ±0.1mm.

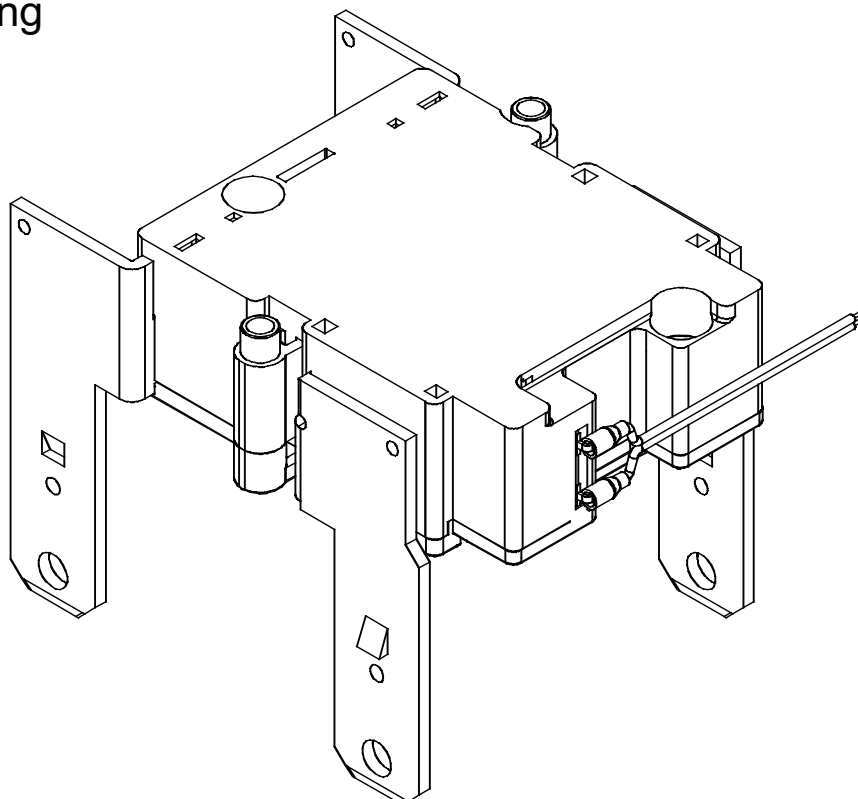
Typical Applications

- Industrial machinery
- Electrical device
- Home appliances
- Meter device

Wiring diagram



Typical drawing



Note:

Typical drawing is just for reference, customized terminals with metering components are acceptable. Please contact us for any special requirements.

Announcements:

- 1 The magnetic latching relay is to be supplied with contacts close(Operate) or contacts open(Release), but the contact status may get changed due to unexpected shock or vibration during delivering or mounting. You can reset the contact status according to your requirement.
- 2 In order to make sure the contacts are completely closed or opened, energized voltage to Operate or Release coil should be the nominal operate/release voltage, impulse width should be 5 times more than specified operate/release time in the specification but less than 1 minute. Do not apply power to Operate and Release coils at the same time.

Disclaimer:

This datasheet is just for customers' reference. The newest specification you can get from the website of sanyourelays. We could not evaluate all the performances and parameters for all possible applications, so the user should choose the suitable relay for their own application or require us to provide necessary help. If there is any query, please contact Sanyou for the technical service, however, it is the user's responsibility to determine which relay should be used.