

### ◆ Feature

1. 8A switching capacity
  2. Low power consumption, high load capacity.
  3. Small size, PCB mounting
  4. Excellent electric life and reliability
  5. Long service life
  6. Environmentally friendly products(Accord RoHS)
- ◇ Drawing : 20.2mm x 11.1mm x10.5mm

### ◆ Contact Capacity

Type	SY32A-1P	SY32A-2P
Rated Road	8A 250VAC(φ COS=1.0) 5A 250VAC(φ COS=0.4) 5A 30VDC	5A 250VAC(φ COS=1.0) 3A 250VAC(φ COS=0.4) 5A 30VDC
Max.switching current	8A/5A	5A
Max.switching voltage	250VAC/30VDC	250VAC/30VDC
Max.switching power	2000VA/150W	1250VA/150W

### ◆ General Spcification

Contact Material	Silver alloy	
Contact resistance	100mΩ Max.	
Operate time	10ms. Max.	
Release time	10ms. Max.	
Insulation Resistance(initial)	1,000mΩ Min. (DC500V)	
Dielectric Strength	Contact-contact:AC1,000V;50/60Hz 1min	
	Contact-coil:AC2,000V; 50/60Hz 1min	
Creepage and dearence distance (coil contact)	Contact-coil: 5000V 1.2/50us	
Vibration resistance	Functional 10~55Hz 1.5mm DA; Destructive 10~55Hz 3.5mm DA;	
Shock resistance	Durability	100G min
	Malfunction	10G min
Expected Life	Mechanical life(3600 cycles/Hour)	10,000,000 cycles
	Electrical life(360 cycles/Hour)	8A 250VAC@50,000cycles 5A 250VAC@100,000cycles
Ambient temperature	-40°C~+85°C	
Humidity	5°C~+85%RH	
Weight	4.5g	

### ◆ Coil Data(at 20 °C)

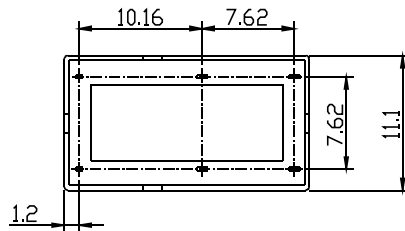
standard type

Nominal voltage (VDC)	Coil Resistance ± 10% (Ω)			Min.Set/Reset voltage(Max) (VDC)	Pulse duration (ms)	Coil power
	Single coil	Dual coil				
5	167	83.5	83.5	70% nominal voltage	100min	Single/Dual 0.15W/0.3W
6	240	120	120			
9	540	270	270			
12	960	480	480			
24	3840	1920	1920			

◆ Ordering information

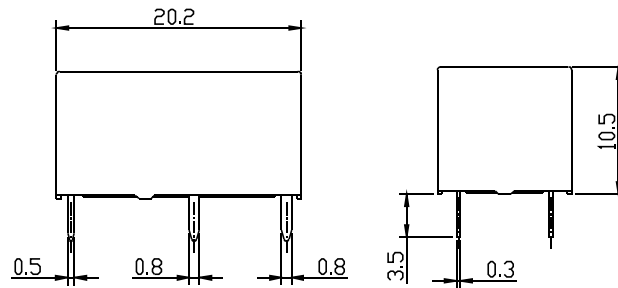
SY32A	-S	-1	12	D	1M	1	Coil sort: 1-Single coil, 2-Dual coil.
							Contact arrangement: 1M= 1 Form A 2M= 2 Form A 1MD= 1 Form A + 1 Form B
							Coil type: D-standard type
							Rated coil voltage(VDC): 05, 06, 09, 12, 24
							Number of contact:1-1P; 2-2P
							Seal type:S-Flux proofed
							Type: SY32A

◆ Outline demension(Unit : mm)

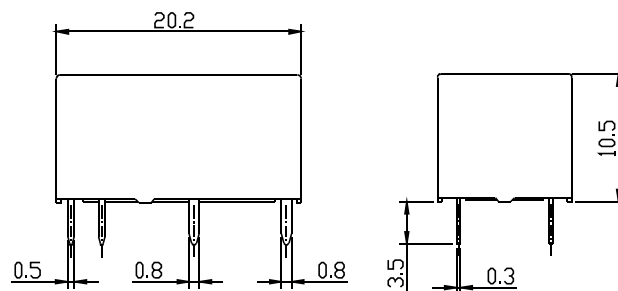
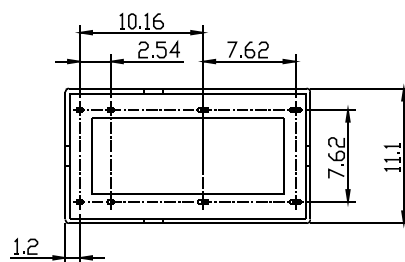


Remark: Unless otherwise specified,  
 < 1mm: ±0.2mm; 1  
 -5mm: ±0.3mm;  
 > 5mm: ±0.4mm.

Single coil



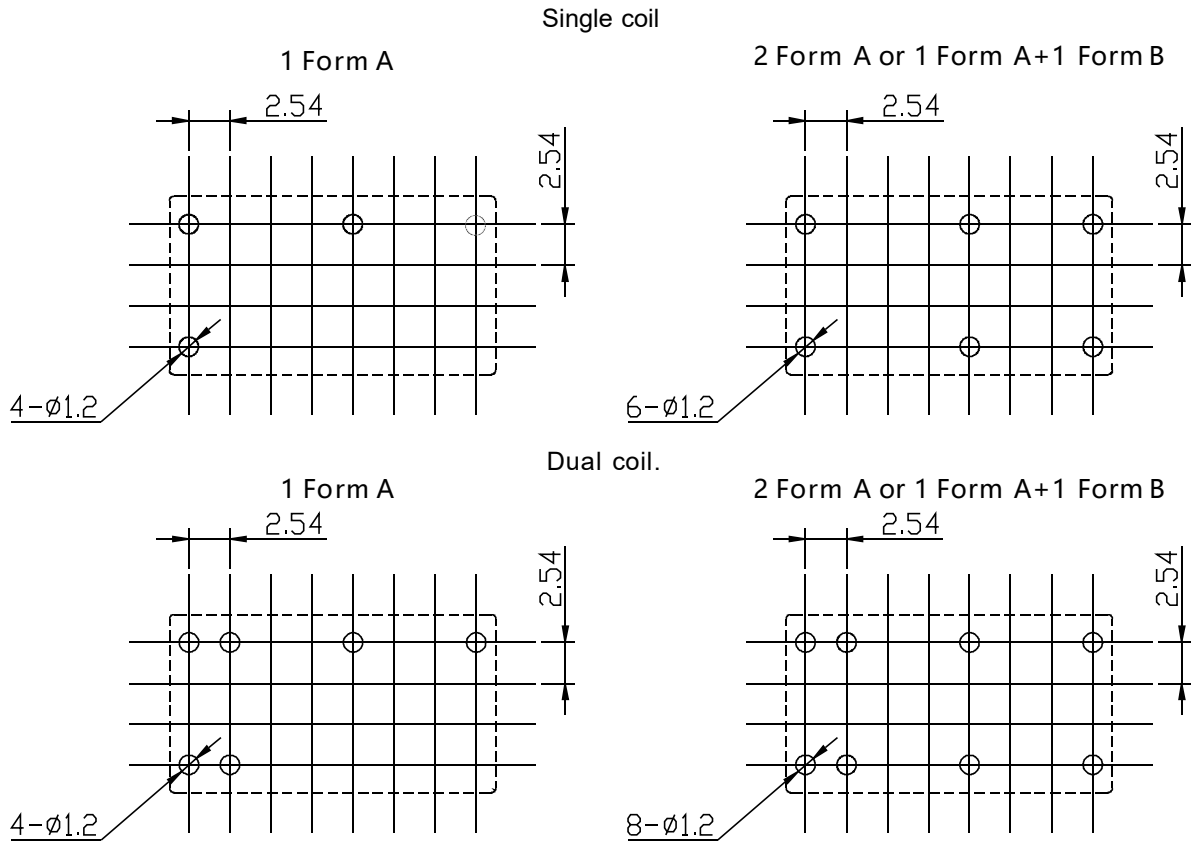
Dual coil.



◆ Typical Application

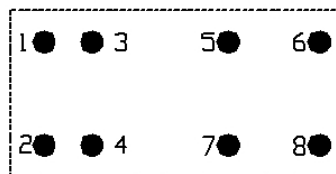
- remote control
- electrical power

◆ Installation diagram (tolerance  $\pm 0.1\text{mm}$ )



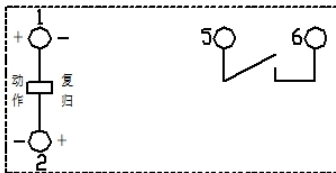
◆ Wiring Diagram

接线图 (底视图)

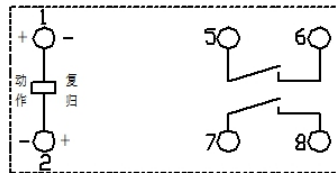


单线圈

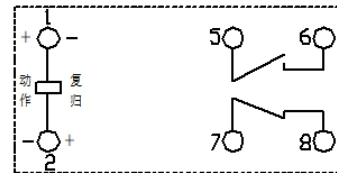
一组常开



两组常开

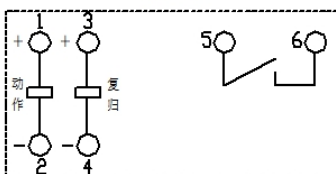


一组常开 + 一组常闭

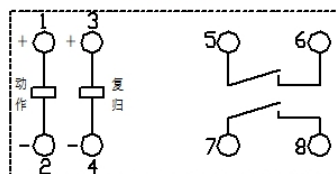


双线圈

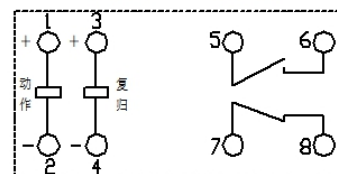
一组常开



两组常开



一组常开 + 一组常闭



Note: The above is the wiring diagram of standard polarity products. The coil polarity of reverse polarity products should be opposite to that of the corresponding standard polarity products.

Precautions :

- ◇ . The original position of latching relay is "closed" when shipping. It is possible that during transit or installation, the relay may change its state to be "open" position, it is recommended to set the relay in to state needed via apply voltage to the coil.
- ◇ . In order to let relay operate normally, the voltage which apply to the coil should reach to the rated voltage, the pulse width should be 50ms to 100ms; Do not energize both coil at the same time on Dual coil or energize the coil for longer than 1 minute.
- ◇ . Relay without copper wire, the terminal can not be soldered, bend, and rigid fasten both two terminals; 4. Keep away from corrosive gas and other condition which may damage the relay.

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