

## Features:

- 16A switching capacity
- Low power consumption
- Compliance Size, PCB Mounting
- Superior Electrical Durability and Reliability
- Single/Dual coils available
- Environmentally friendly products( Accord RoHS )
- Dimensions: 29.1mm×25.45mm×12.8mm



## Typical Application:

- Smart Home
- Electrical Control

## Contact Data

Type	WJ32M-1P	WJ32M-2P
Contact form	1A/1B/1C	2A/2B/2C
Rated Load	16A 250VAC	5A 250VAC
Max.switching voltage	250VAC	250VAC
Max.switching current	16A	5A
Max.switching power	4,000VA	1,250VA
Contact Material	Silver alloy	
Contact resistance	≤ 50 mΩ	
Max.Operate/Release time	15ms/15ms	
Electrical Endurance	1x10 <sup>5</sup> Cycles ( 1P: 16A 250VAC; 2P: 5A 250VAC )	
Mechanical Endurance	1x10 <sup>6</sup> Cycles	

## Coil Data

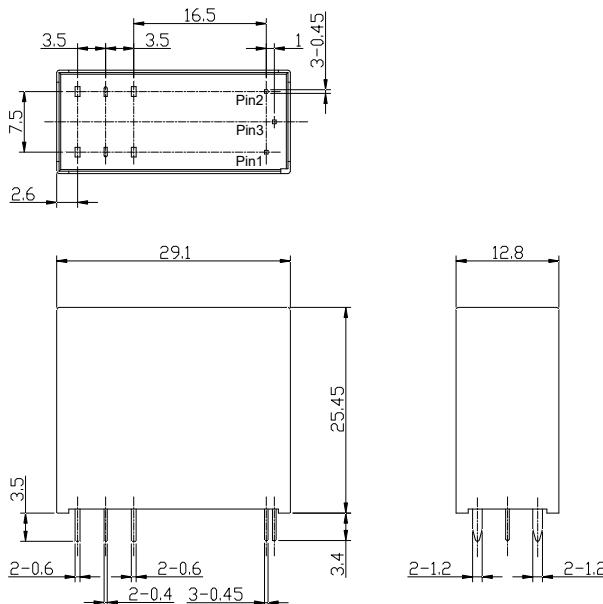
Coil voltage range		5 to 48VDC		
Coil insulation system according UL		Class F		
Coil type, standard type				
Rated Voltage VDC	Operate/Release Voltage VDC	Coil resistance Ω (1±10%)	Rated power Single/Dual W	Pulse Duration ms
5	≤3.5	25/12.5	1/2	≥50
9	≤6.3	81/40.5	1/2	≥50
12	≤8.4	144/72	1/2	≥50
24	≤16.8	576/288	1/2	≥50
48	≤33.6	2304/1152	1/2	≥50

All figures are given for coil without pre-energization, at ambient temperature 20°C.

## Insulation Data

Insulation Resistance	≥1,000MΩ (500VDC)
Dielectric Strength	Contact-Contact AC750V; 50/60Hz 1min
	Contact-Coil AC2,000V; 50/60Hz 1min
	Between Contact Groups AC2,000V; 50/60Hz 1min

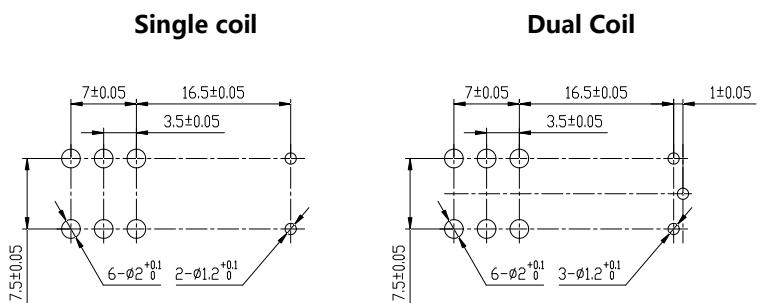
## Outline Dimensions (Unit: mm)



## Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACHHS					
Ambient Temperature	-40°C to +85°C				
Ambient Humidity	5% ~ 85% RH				
Vibration resistance	10 ~ 55Hz, 1.5mm DA				
Shock resistance	<table border="1"> <tr> <td>Durability</td> <td>100g</td> </tr> <tr> <td>Malfunction</td> <td>10g</td> </tr> </table>	Durability	100g	Malfunction	10g
Durability	100g				
Malfunction	10g				
Packaging type	Dust proof type				
Output port form	Printed circuit board type				

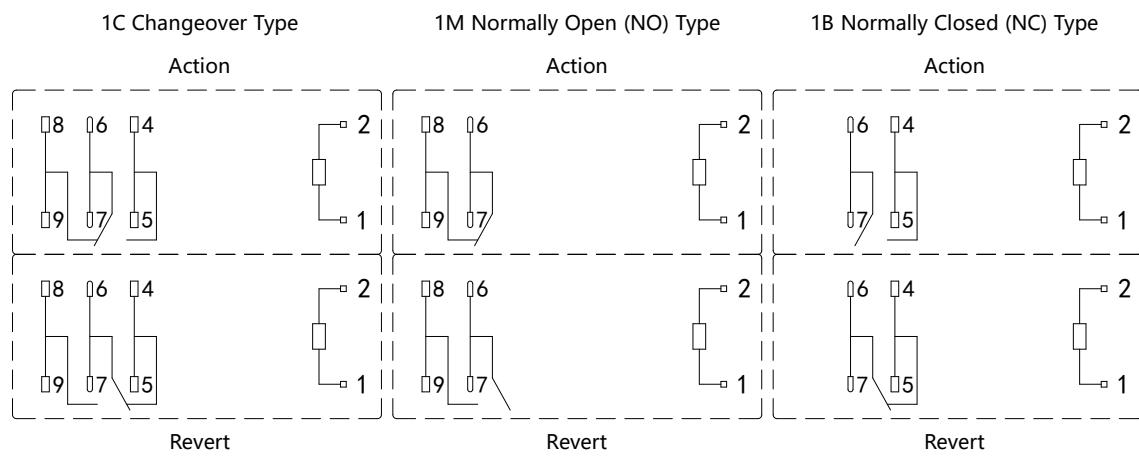
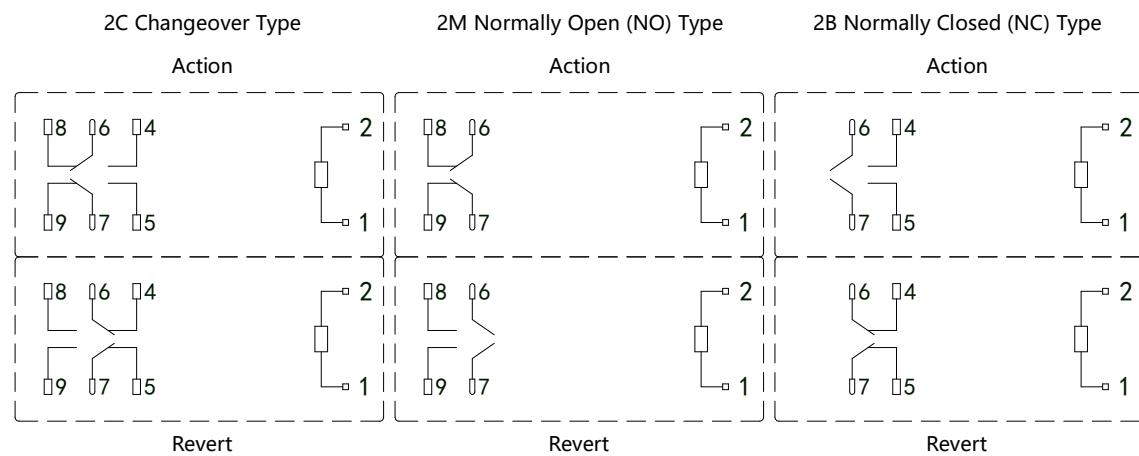
## Mounting Diagram (Unit: mm)



Note: Some product dimensional tolerance is not specified. When <1mm, the tolerance is ±0.2mm; when between 1~5mm, the tolerance is ±0.3mm; when >5mm, the tolerance is ±0.4mm.

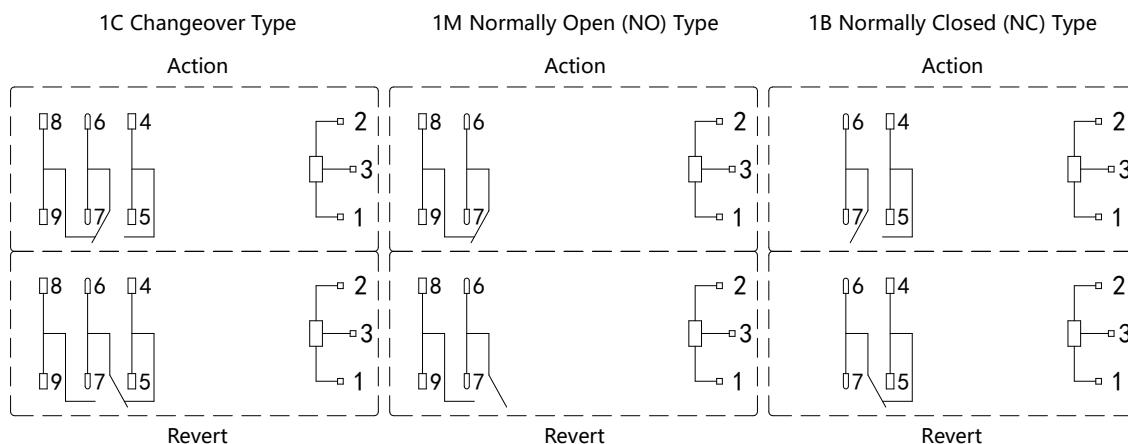
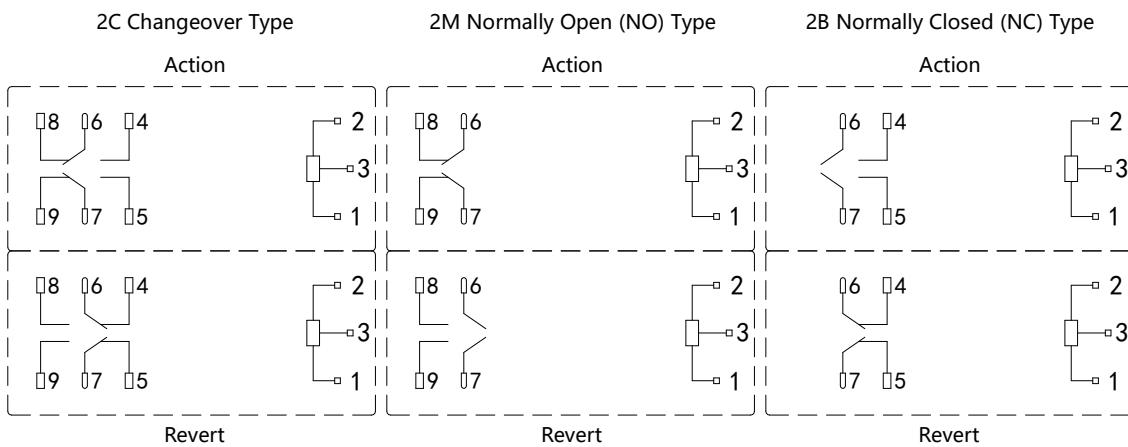
**Wiring Diagrams**
**Single coil**

1C/2C Changeover Type	Positive polarity			Reverse polarity		
	1-	Action	2+	1+	Action	2-
	1+	Revert	2-	1-	Revert	2+
1M/2M Normally Open (NO) Type	Positive polarity			Reverse polarity		
	1-	Action	2+	1+	Action	2-
	1+	Revert	2-	1-	Revert	2+
1B/2B Normally Closed (NC) Type	Positive polarity			Reverse polarity		
	1-	Action	2+	1+	Action	2-
	1+	Revert	2-	1-	Revert	2+

**WJ32M-1P**

**WJ32M-2P**


**Dual Coil**

1C/2C Changeover Type	Positive polarity					Reverse polarity				
	1+	Revert	3-	Action	2+	1-	Revert	3+	Action	2-
1M/2M Normally Open (NO) Type	Positive polarity					Reverse polarity				
	1+	Revert	3-	Action	2+	1-	Revert	3+	Action	2-
1B/2B Normally Closed (NC) Type	Positive polarity					Reverse polarity				
	1+	Revert	3-	Action	2+	1-	Revert	3+	Action	2-

**WJ32M-1P**

**WJ32M-2P**


**Model naming rules**

WJ32M -S -1 12 D M 1 -XX Special Requirements: Customer-Specified Type

Coil Sort: 1-Single coil; 2-Dual coils

Contact Form: None - Changeover (Form C)

M - Normally Open (Form A)

B - Normally Closed (Form B)

Coil Sort: D- Standard Type

Rated coil voltage(VDC): 05 , 06 , 09 , 12 , 24

Number of Contact Groups: 1 - One Group; 2 - Two Groups

Encapsulation Type: S - Plastic Sealed

Type: WJ32M

Customized special suffix is available after being evaluated by Sanyou.

**Examples of Ordering Codes**

WJ32M-S-112DM1

Relay WJ32M, Indicates plastic packaging S, Group 1, Coil Specifications 12 VDC, Standard Type D, 1 Form A, single coil,

**Cautions**

1. 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.
2. 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 minute.
3. 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.

**Disclaimer**

This product specification is for reference only and may change without prior notice. Customers should select the appropriate product model according to the performance parameter requirements of their specific application areas. The customer will bear the responsibility and loss caused by improper selection. For more technical support, please contact Sanyou Corporation Limited.