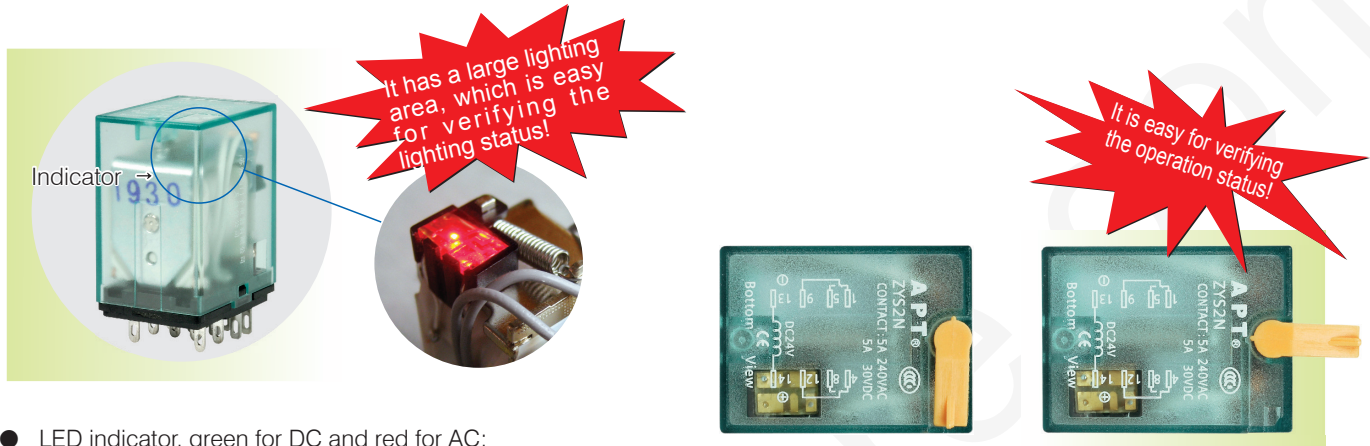


## ZY Series Control Replay

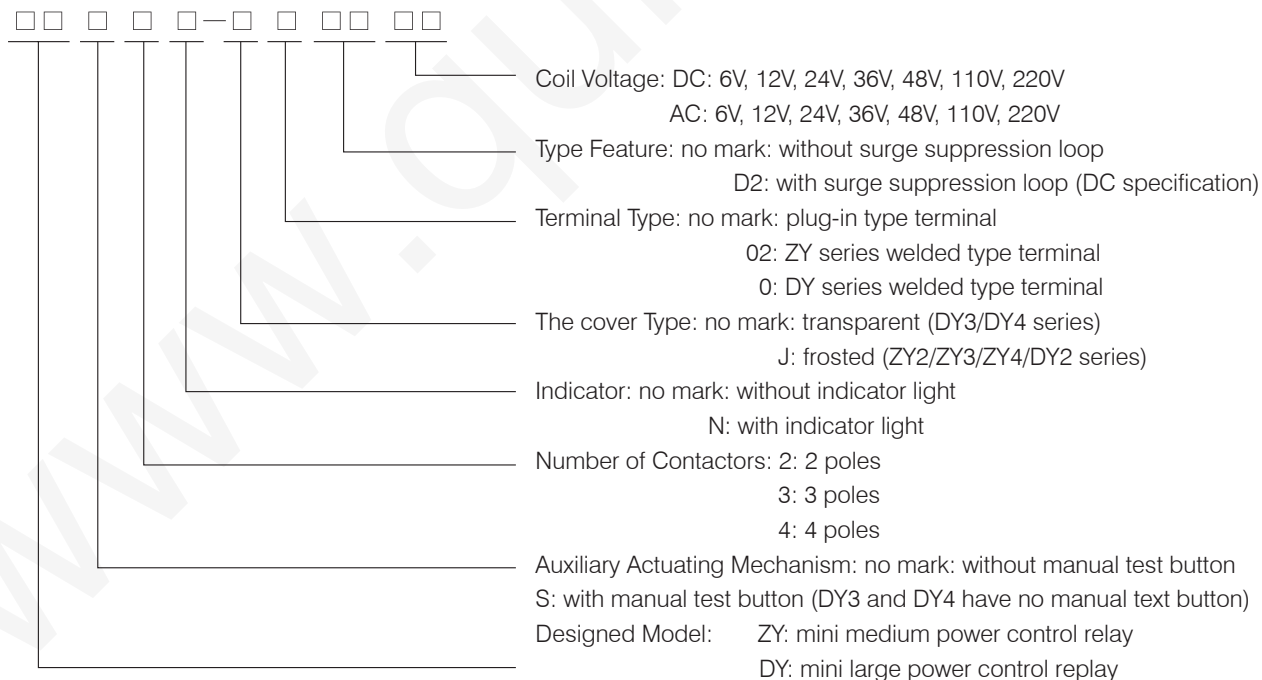
### Product Features

- variety type model and it is almost 400 model;
- Apply in many industry and the contact capacity current from low current (10mA) to power current (10A);
- The control voltages of the coil: DC6V-120V, AC12V-240V (50/60Hz);
- Multi installation methods with various sockets for selection;



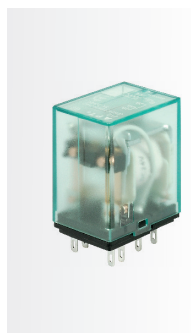
- LED indicator, green for DC and red for AC;
- It has a large lighting area, which is easy for verifying the lighting status;
- The indicator light and surge suppressor are integrated together.
- Test button function, easy for debugging and maintenance.

### Description of Model Number

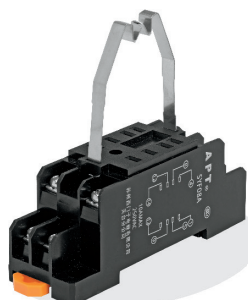


## ZY Series Relay

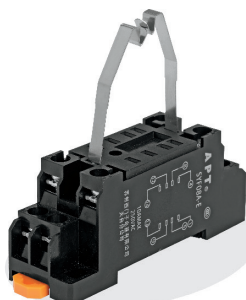
### ZY2-J Series



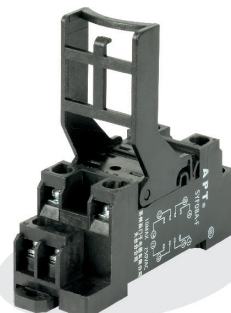
ZY2-J  
(Standard Type)



Applicable Sockets  
(SYF08A)  
Standard screw terminal type  
with the width of 22mm



Applicable Sockets  
(SYF08A-E)  
Safety type screw terminal  
type with the width of 22mm



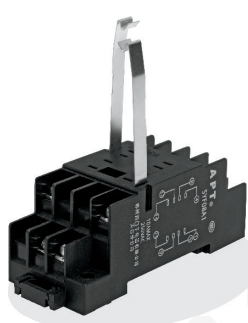
Applicable Sockets  
(SYF08A-F)  
Safety type screw terminal  
type with trip bar mode and  
the width of 24mm



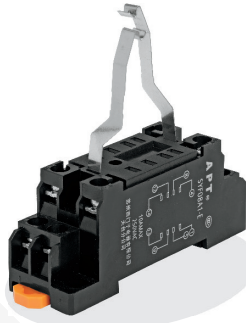
Applicable Sockets  
(SKB08-E)  
Frame type screw terminal  
type with trip bar mode and  
the width of 27mm



ZYS2-J  
(Manual test Button Type)



Applicable Sockets  
(SYF08A1)  
Standard screw terminal type  
with the width of 22mm



Applicable Sockets  
(SYF08A1-E)  
Safety type screw terminal  
type with the width of 22mm

### Category:

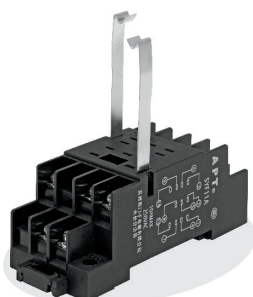
Classification	Model.	Coil Voltage
Standard Type	ZY2-J	DC: 6V、12V、24V、36V、48V、110V、220V AC: 6V、12V、24V、36V、48V、110V、220V
Manual test button Type	ZYS2-J	
Welded Terminal Type	ZY2-J02	
Indicator Type	ZY2N-J	
Surge Suppression Loop Type (DC specification)	ZY2-JD2	

For example: manual test button, 2 poles with indicator and surge suppression loop, and DC12V coil voltage, welded type, the medium power relay as: ZYS2N-J02D2DC12V.

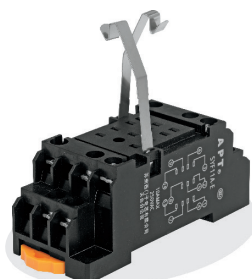
## ZY3-J Series



ZY3-J  
(Standard Type)



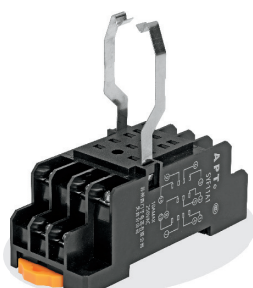
Applicable Sockets  
(SYF11A)  
Standard screw terminal type  
with the width of 29mm



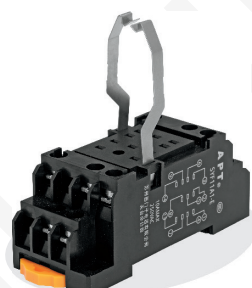
Applicable Sockets  
(SYF11A-E)  
Safety type screw terminal  
type with the width of 29mm



ZYS3-J  
(Manual test Button Type)



Applicable Sockets  
(SYF11A1)  
Standard screw terminal type  
with the width of 29mm



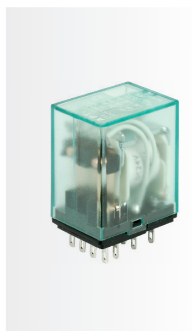
Applicable Sockets  
(SYF11A1-E)  
Safety type screw terminal  
type with the width of 29mm

## Category:

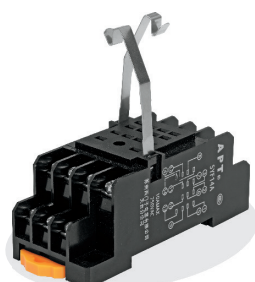
Classification	Model.	Coil Voltage
Standard Type	ZY3-J	DC: 6V, 12V, 24V, 36V, 48V, 110V, 220V AC: 6V, 12V, 24V, 36V, 48V, 110V, 220V
Manual test button Type	ZYS3-J	
Welded Terminal Type	ZY3-J02	
Indicator Light Type	ZY3N-J	
Surge Suppression Loop Type (DC specification)	ZY3-JD2	

For example: manual test button, 3 poles with indicator and surge suppression loop, and DC12V coil voltage, welded type, the medium power relay as: ZYS3N-J02D2DC12V.

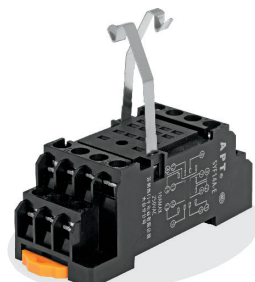
## ZY4-J Series



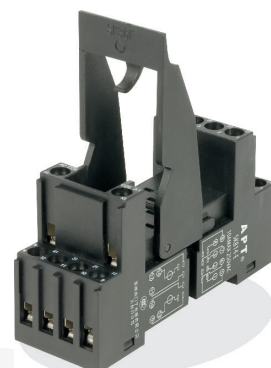
ZY4-J  
(Standard Type)



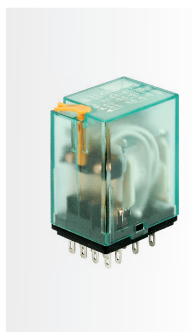
Applicable Sockets  
(SYF14A)  
Standard screw terminal type  
with the width of 29mm



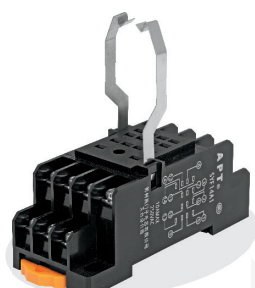
Applicable Sockets  
(SYF14A-E)  
Safety type screw terminal  
type with the width of 29mm



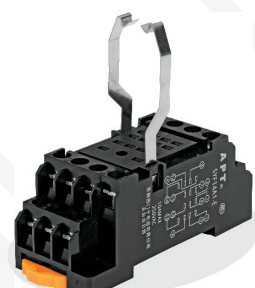
Applicable Sockets  
(SKB14-E)  
Frame type screw terminal type with  
trip bar mode and the width of 27mm



ZYS4-J  
(Manual test button Type)



Applicable Sockets  
(SYF14A1)  
Standard screw terminal type  
with the width of 29mm



Applicable Sockets  
(SYF14A1-E)  
Safety type screw terminal  
type with the width of 29mm

## Category:

Classification	Model.	Coil Voltage
Standard Type	ZY4-J	DC: 6V, 12V, 24V, 36V, 48V, 110V, 220V AC: 6V, 12V, 24V, 36V, 48V, 110V, 220V
Manual test button Type	ZYS4-J	
Welded Terminal Type	ZY4-J02	
Indicator Light Type	ZY4N-J	
Surge Suppression Loop Type (DC specification)	ZY4-JD2	

For example: manual test button, 4 poles with indicator and surge suppression loop, and DC12V coil voltage, welded type, the medium power relay as: ZYS4N-J02D2DC12V.

## Technical Parameters

### (1) Basic Technical Data

Item		ZY2-J/ZYS2-J	ZY3-J/ZYS3-J	ZY4-J/ZYS4-J
Ith		5A		3A
Ui		250V		
Max. Working Voltage of Coil		110%Us		
Action Time		≤20ms		
Release Time		≤30ms		
Contact Changeover & Release Time		≥0.15ms		
Contact Resistance		≤50mΩ		
Max. Working Voltage of Contactor		AC250V, DC250V		
Insulation Resistance		≥100MΩ		
Uimp	Between Breaking Contacts	AC1100V, 50Hz, 1min		
	Between Contact Poles	AC1500V, 50Hz, 1min		
	Between Contact-Coil	AC1500V, 50Hz, 1min		
	Between Contact/Coil- Ground	AC1500V, 50Hz, 1min		
Operation Frequency		≤30 times/minute		
Vibration		10~55Hz, Complex Amplitude 1.0mm, 1min		
Impact		200m/s <sup>2</sup> , 11ms		
Electrical endurance		2×10 <sup>5</sup> Times		
Mechanical endurance		AC: 2×10 <sup>7</sup> Times; DC: 5×10 <sup>7</sup> Times		
Ambient Temperature		-5℃ ~ +40℃		
Weight		About 38g		

## (2) Coil Specifications

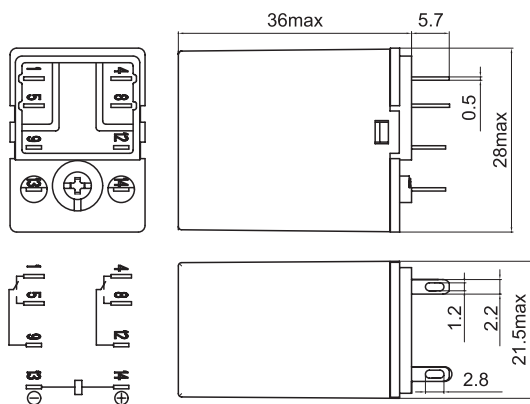
Rated Voltage	operate Voltage	Release Voltage	Coil Resistance ( $\Omega$ )	Coil Power consumption
DC6V	$\leq 4.5V$	$\geq 0.6V$	40	About 0.9W
DC12V	$\leq 9V$	$\geq 1.2V$	160	
DC24V	$\leq 18V$	$\geq 2.4V$	640	
DC36V	$\leq 27V$	$\geq 3.6V$	1450	
DC48V	$\leq 36V$	$\geq 4.8V$	2600	
DC110V	$\leq 82.5V$	$\geq 11V$	11500	
DC220V	$\leq 165V$	$\geq 22V$	46500	
AC6V	$\leq 4.8V$	$\geq 1.8V$	9	About 1.2VA
AC12V	$\leq 9.6V$	$\geq 3.6V$	35	
AC24V	$\leq 19.2V$	$\geq 7.2V$	160	
AC36V	$\leq 28.8V$	$\geq 10.8V$	280	
AC48V	$\leq 38.4V$	$\geq 14.4V$	590	
AC110V	$\leq 88V$	$\geq 33V$	3500	
AC220V	$\leq 176V$	$\geq 66V$	13800	

Notes: 1. The above data are tested at room temperature (25°C ).  
 2. AC specification is the parameter at 50Hz.  
 3. The special order shall be placed for other coil voltage specifications.

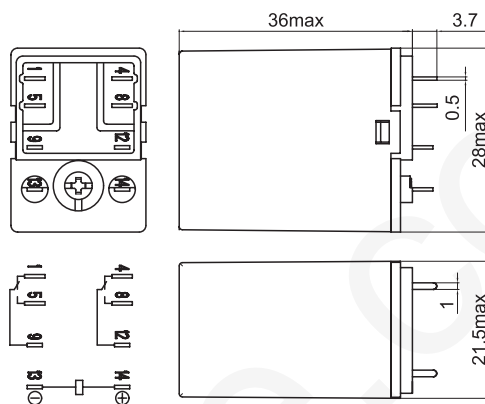
## (3) Contact Capacity

Product Model.	AC-12	AC-15	DC-12	DC-13
ZY2-J/ZYS2-J ZY3-J/ZYS3-J	240V/5A	240V/1A	30V/5A	30V/1A
ZY4-J/ZYS4-J	240V/3A	240V/0.5A	30V/3A	30V/0.5A

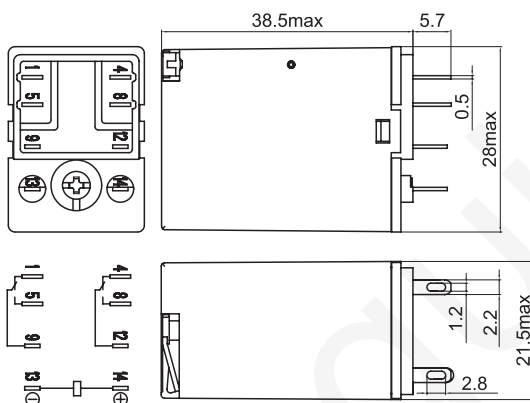
## Appearance and Installation Sizes, Internal Wiring Diagram



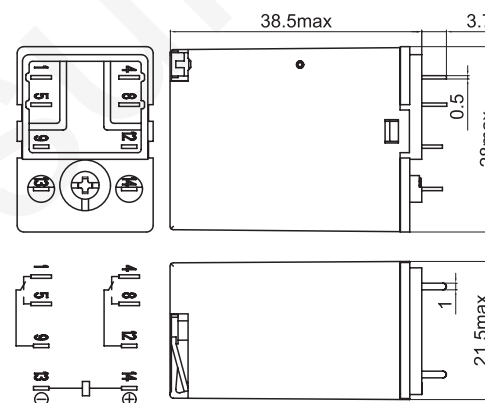
ZY2-J Appearance Size and Internal Wiring Diagram



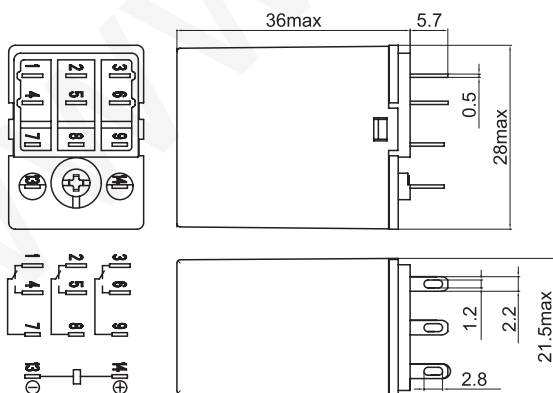
ZY2-J02 Appearance Size and Internal Wiring Diagram



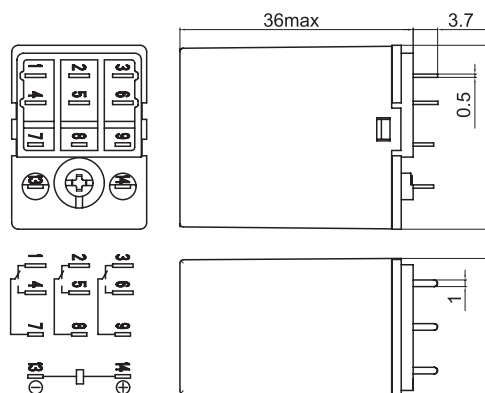
ZYS2-J Appearance Size and Internal Wiring Diagram



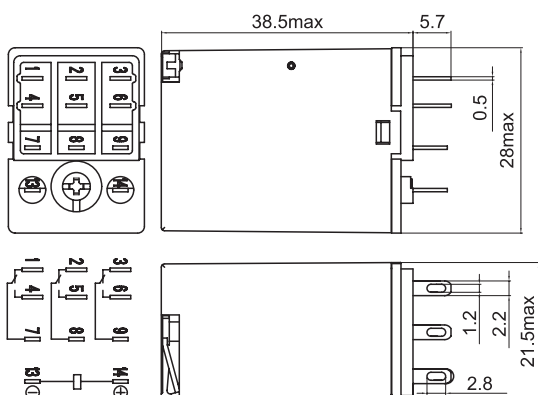
ZYS2-J02 Appearance Size and Internal Wiring Diagram



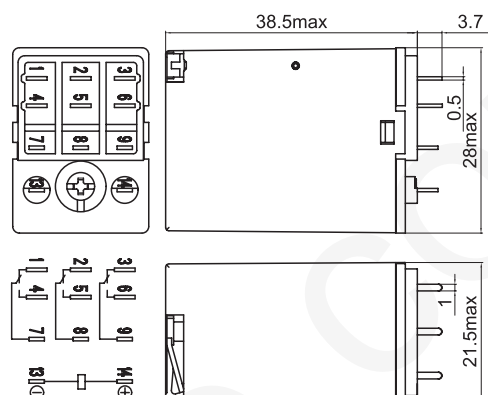
ZY3-J Appearance Size and Internal Wiring Diagram



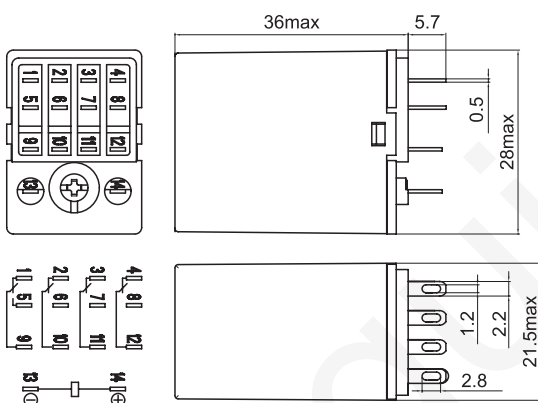
ZY3-J02 Appearance Size and Internal Wiring Diagram



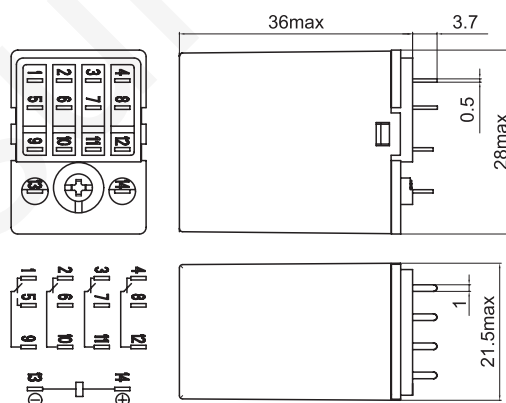
ZYS3-J Appearance Size and Internal Wiring Diagram



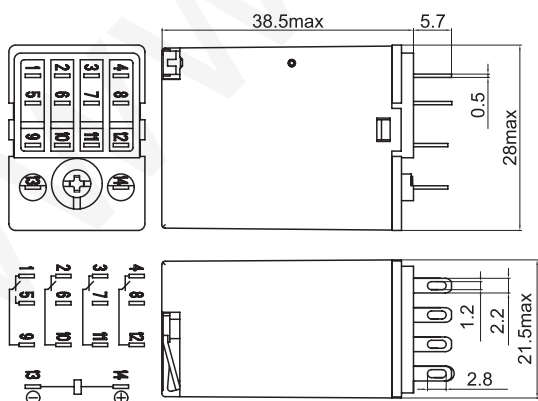
ZYS3-J02 Appearance Size and Internal Wiring Diagram



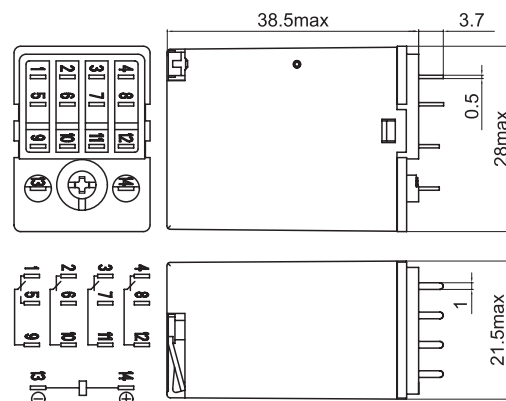
ZY4-J Appearance Size and Internal Wiring Diagram



ZY4-J02 Appearance Size and Internal Wiring Diagram

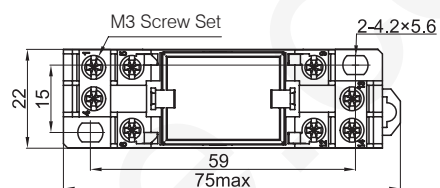
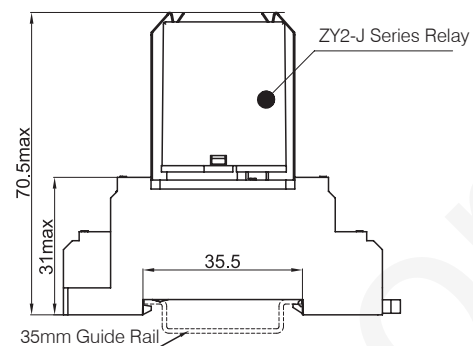
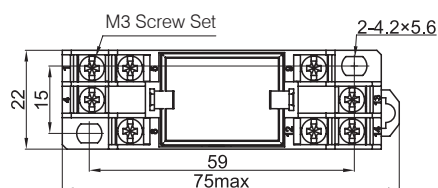
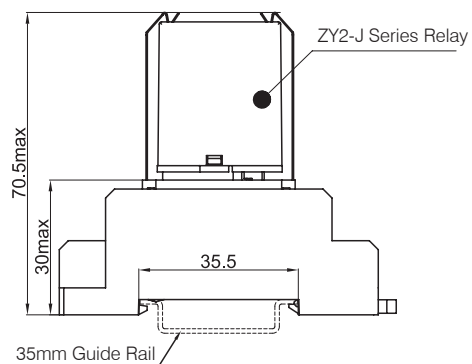


ZYS4-J Appearance Size and Internal Wiring Diagram



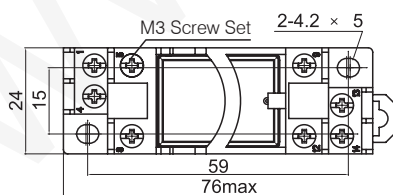
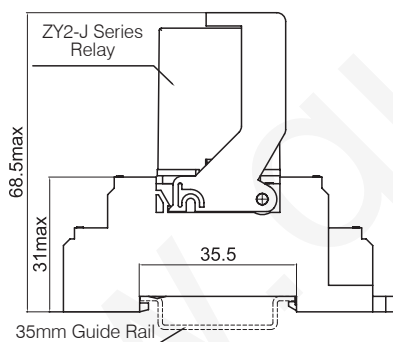
ZYS4-J02 Appearance Size and Internal Wiring Diagram



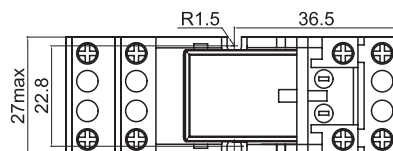
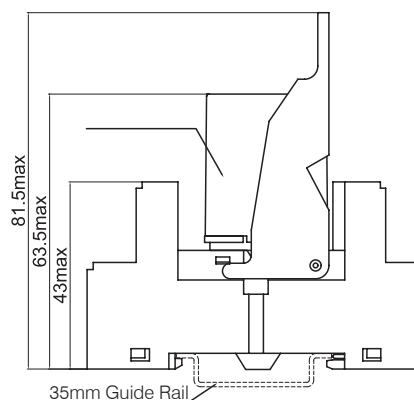


SYF08A Socket Appearance & Installation Sizes and Internal Wiring Diagram

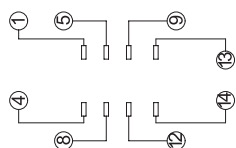
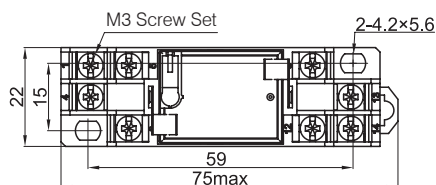
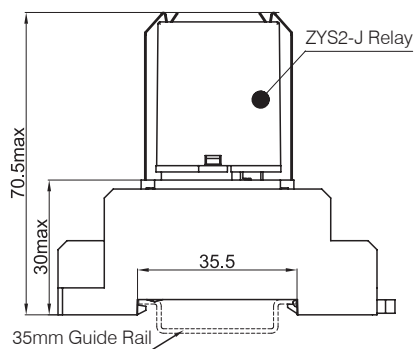
SYF08A-E Socket Appearance & Installation Sizes and Internal Wiring Diagram



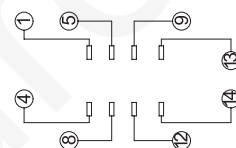
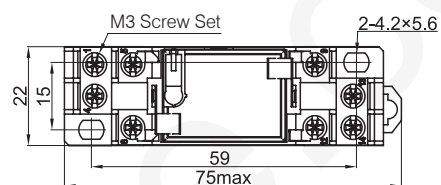
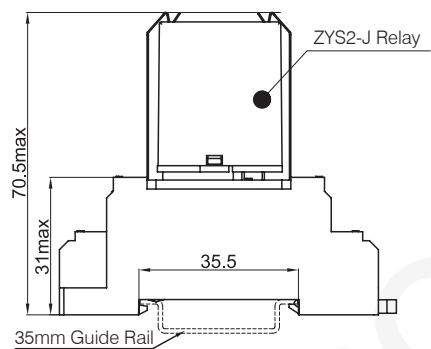
SYF08A-F Socket Appearance & Installation Sizes and Internal Wiring Diagram



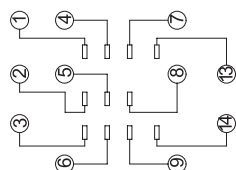
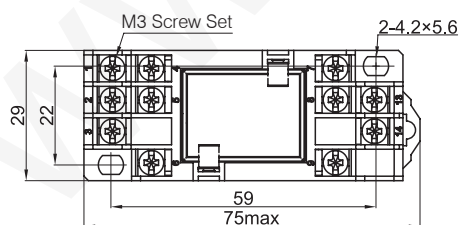
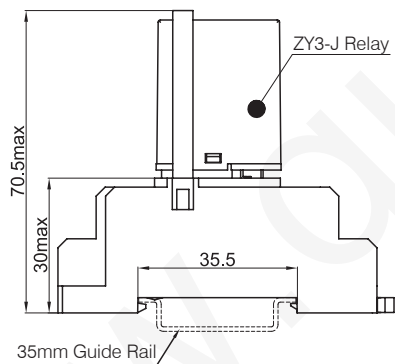
SKB08-E Socket Appearance & Installation Sizes and Internal Wiring Diagram



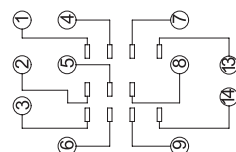
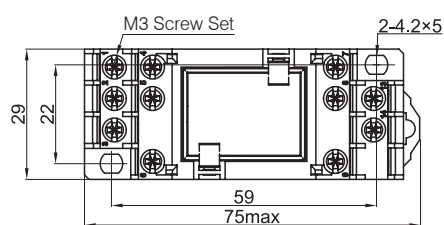
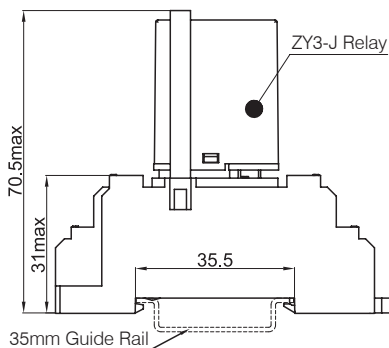
SYF08A1 Socket Appearance & Installation Sizes and Internal Wiring Diagram



SYF08A1-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

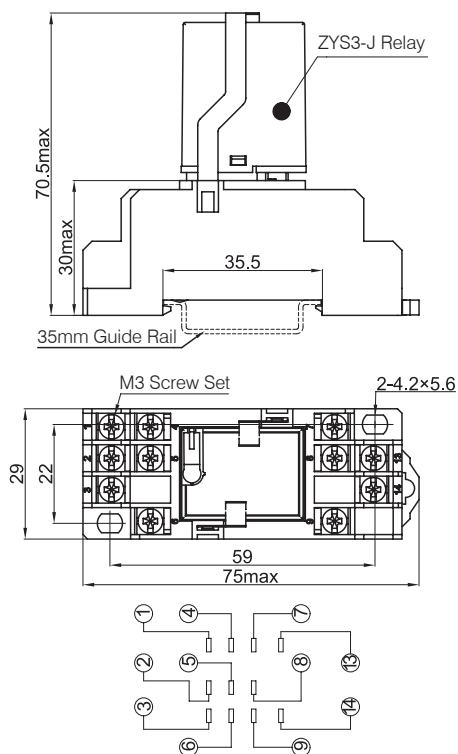


SYF11A Socket Appearance & Installation Sizes and Internal Wiring Diagram

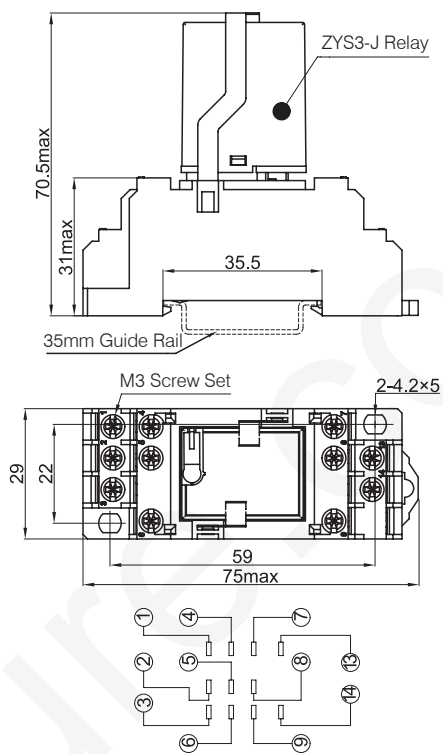


SYF11A-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

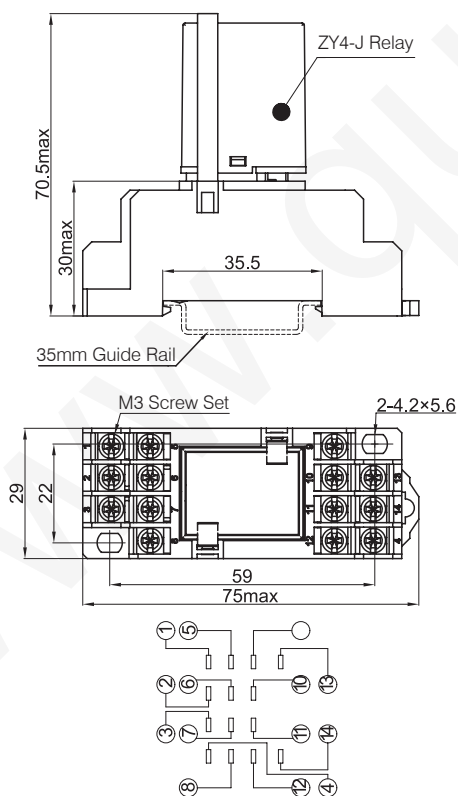
## ZY Series Control Replay



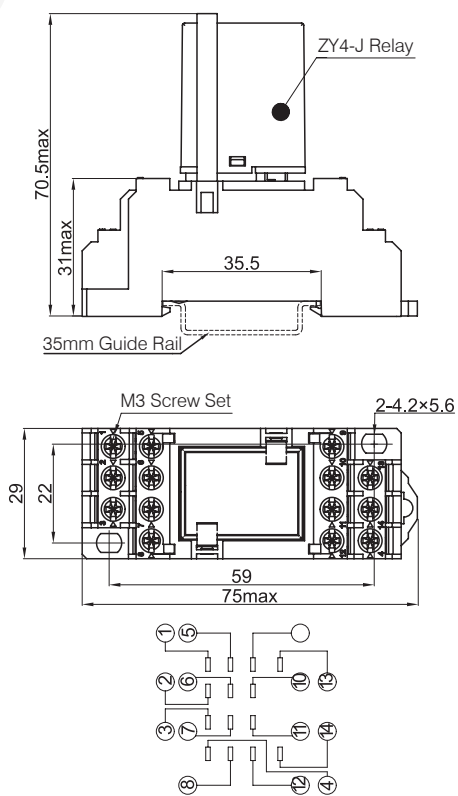
SYF11A1 Socket Appearance & Installation Sizes and Internal Wiring Diagram



SYF11A1-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

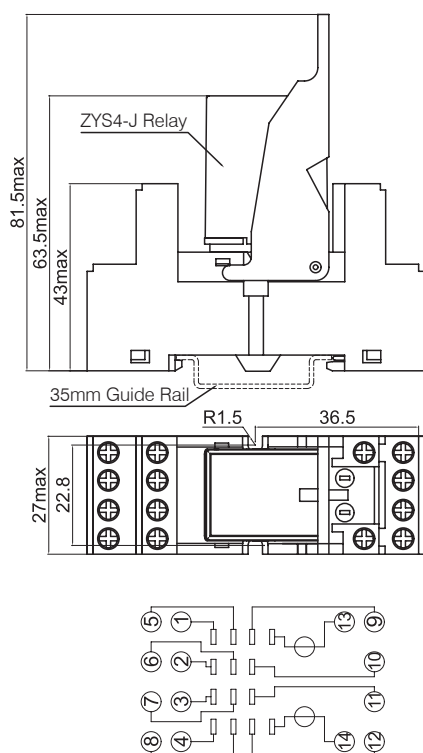


SYF14A Socket Appearance & Installation Sizes and Internal Wiring Diagram

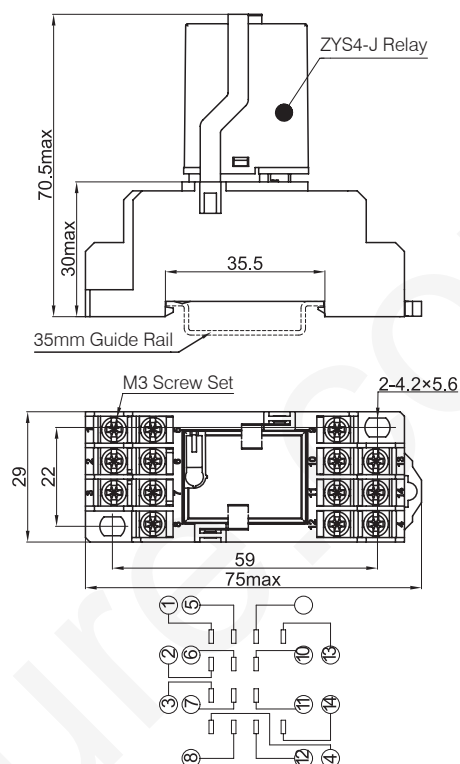


SYF14A-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

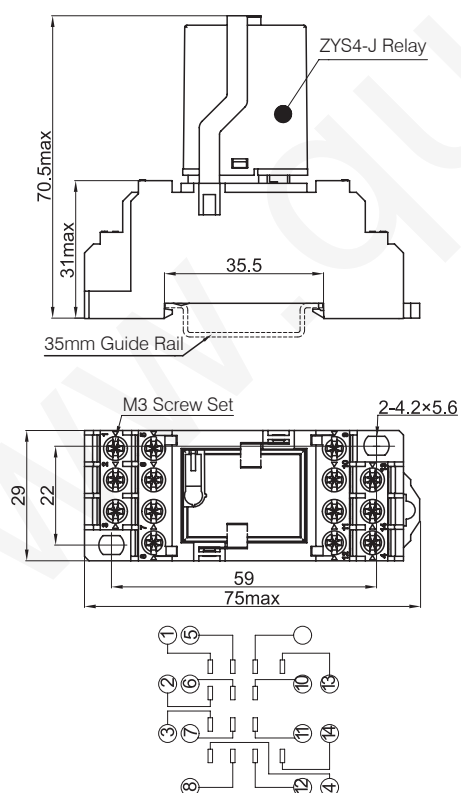
## ZY Series Control Replay



SKB14-E Socket Appearance & Installation Sizes and Internal Wiring Diagram



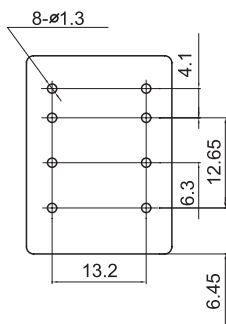
SYF14A1 Socket Appearance & Installation Sizes and Internal Wiring Diagram



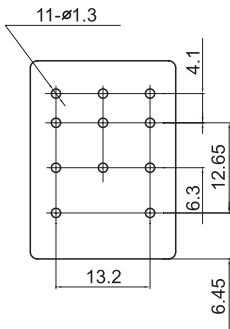
SYF14A1-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

# ZY Series Control Replay

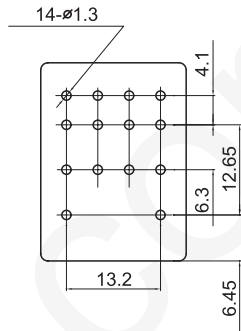
## Hole Size



ZY2-J02/ZYS2-J02 Installation Hole Size



ZY3-J02/ZYS3-J02 Installation Hole Size



ZY4-J02/ZYS4-J02 Installation Hole Size