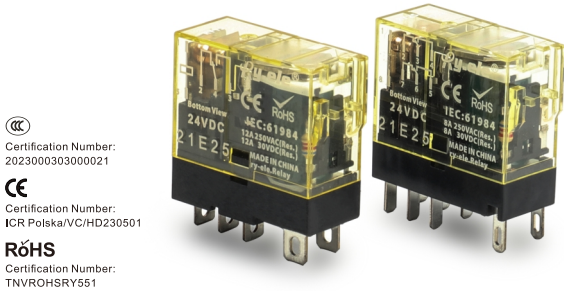


Please note that please be sure to understand the precautions before ordering.



Characteristics

- 12A/8A load switching capability
- One/two sets of contacts are converted
- The original return spring structure is used to improve durability
- The use of highly conductive materials ensures stable energizing performance even at high currents
- The mechanical life is more than 20 million times
- Dust cover type package
- Meet the use of sockets

Order specifications

Order number	RY1S-CL-D24	RY2S-CL-D24
Packing Units	40 pcs	
Minimum order quantity	40 pcs	
Unit weight (including packaging)	/	
Unit weight (without packaging)	about 19 g	
Origin	WZ	

Example of an order mark

RY 1S - C L - D24 / (W/Y)  
① ② ③ ④ ⑤ ⑥

- ① RY:Enterprise code
- ② Contact conversion: 1S = 1 set of conversions, 2S = 2 sets of conversions
- ③ Mechanical action display
- ④ L = with LED light, none = no LED light
- ⑤ Coil voltage: refer to the coil parameter table
- ⑥ Color: W = white transparent case, Y = beige yellow case

**Note:**  
1. When ordering, refer to the coil specification table for relay voltage selection;  
2. The special requirements of customers will be identified in the form of characteristic numbers after being reviewed by our technical department.

Contact parameters

Contact form	1NO1NC	2NO2NC
Contact resistance(1)	≤50mΩ	
Contact material	AgSnO2	
Contact load	12A	8A
Maximum switching voltage	250VAC/30VDC	
Maximum switching current	12A	8A
Maximum switching power	3000VA/360W	
Mechanical durability (No load)	DC coil: more than 20 million times	
	AC coil: more than 20 million times	
Electrical life Switching frequency: 1800 times/hour	DC load: more than 100,000 cycles	
	AC load: more than 200,000 cycles	

Performance parameters

Insulation resistance	100mΩ or more (500V DC megohmmeter)		
The medium is pressure-resistant	Between the contact and the coil 5000VAC 1min		
	Between the same pole contacts	1000VAC	1min
	Between heteropolar contacts	3000VAC	1min
Action time	≤15ms		
Release time	≤10ms		
Coil temperature rise	≤85K		
Impact resistance	1000m/s <sup>2</sup>		
Shock resistance	Frequency 10Hz-55Hz, single amplitude 0.75mm		
Humidity	5 ~ 85%RH		
Temperature	-40°C ~ +70°C(No icing)		
Lead-out form	Plug-in		
Encapsulation	Solder mask type		

Performance parameters

Insulation resistance	DC : about 0.53W
	AC : about 0.9VA

 Note:


1. The above values are initial.

Contact Parameters (DC Specification: 0.53W) 23°C

Rated voltageVDC	6	12	24	48	100/110	220
Operating voltage <sub>(1)</sub> VDC	≤4.5	≤9.0	≤18	≤36	≤82.5	≤165
Release voltageVDC	≥0.60	≥1.20	≥2.40	≥4.80	≥11.0	≥22.0
Maximum voltage <sub>(2)</sub> VDC	6.6	13.2	26.4	52.8	121	242
Coil resistance(±10%)Ω	40	160	640	2600	13450	42000

Contact Parameters (AC Specification: 0.9VA) 23°C

Rated voltageVAC	6	12	24	48	100/110	220
Operating voltage <sub>(1)</sub> VAC	≤4.8	≤9.6	≤19.2	≤38.4	≤88.0	≤176
Release voltageVAC	≥1.80	≥3.60	≥7.20	≥14.4	≥33.0	≥66.0
Maximum voltage <sub>(2)</sub> VAC	6.6	13.2	26.4	52.8	121	242
Coil resistance(±10%)Ω	12	45	180	700	3750	14500

- 

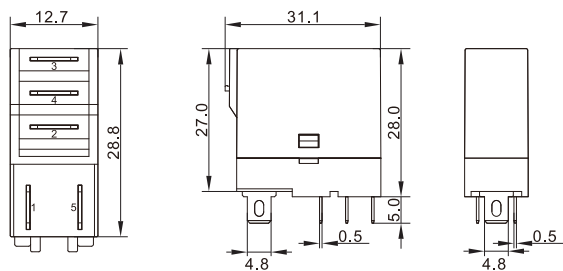
Note:
1. At room temperature, when the relay operates normally, the minimum value of the voltage applied to the coil foot of the relay shall not be less than 80% of the rated voltage, but in order to reach to the specified product performance, please apply the rated voltage to the coil when using.

2. The maximum voltage refers to the maximum voltage that the relay coil can withstand in a short period of time.

Exterior Dimension Drawing

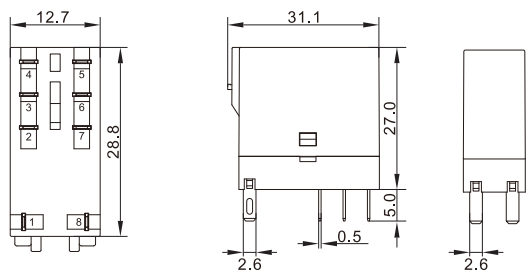
Unit:mm

Vertical mounting type with pins



1 set of conversion type

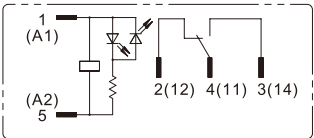
Vertical mounting type with pins



2 sets of conversion types

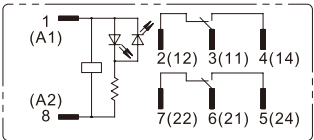


Wiring diagram



1 set of conversion type

Wiring diagram

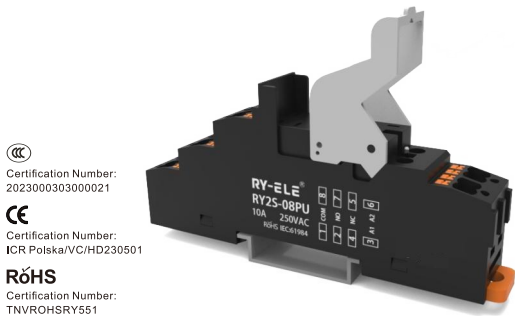


2 sets of conversion types

**Note:**

1. When the overall size is  $\leq 1\text{mm}$ , the tolerance is  $\pm 0.2\text{mm}$ , and when the overall size is between  $(1\sim 5)\text{mm}$ , the tolerance is  $\pm 0.3\text{mm}$ , when the overall dimensions  $> 5\text{mm}$ , the tolerance is  $\pm 0.4\text{mm}$ .

Matching base



Characteristics

- Small size, space-saving
- PCB, screw, and rail mounting styles are available
- With relay puller, lock and prevent falling off, easy to replace
- A variety of plug-in modules are available to realize power-on indication and line protection functions
- Optional accessories: circlip, marker, plug-in module

Order specifications

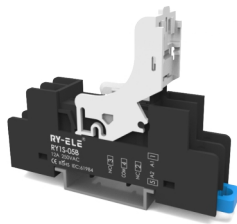
Model	Rated voltage	Curren rating	Ambient temperature	Pressure-resistant	Screw torque	External wires	Weight
RY1S-05B	250VAC	12A	-35°C~70°C	1000	0.8-1.0N.m	7mm	about25g
RY2S-05B	250VAC	8A	-35°C~70°C	1000	0.8-1.0N.m	7mm	about29g
RY1S-05E	250VAC	12A	-35°C~70°C	1000	0.8-1.0N.m	7mm	about25g
RY2S-08E	250VAC	8A	-35°C~70°C	1000	0.8-1.0N.m	7mm	about28g
RY1S-05PU	250VAC	12A	-35°C~70°C	1000	-	7mm	about34g
RY2S-08PU	250VAC	8A	-35°C~70°C	1000	-	7mm	about39g
14F-1Z-C5	250VAC	12A	-35°C~70°C	1000	0.8-1.0N.m	7mm	about35g
14F-2Z-C5	250VAC	8A	-35°C~70°C	1000	0.8-1.0N.m	7mm	about42g
SJ1S-61	250VAC	12A	-35°C~70°C	1000	-	7mm	about4.1g
SJ2S-61	250VAC	8A	-35°C~70°C	1000	-	7mm	about4.1g
1S-61-S	250VAC	12A	-35°C~70°C	1000	-	7mm	about4.8g
2S-61-S	250VAC	8A	-35°C~70°C	1000	-	7mm	about4.8g

Matching base

Unit:mm

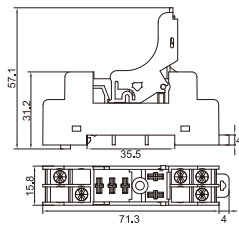
RY1S-05B-Screw wiring

Screw connection, black base, can be equipped with connection strips ES-10-16H/HR/HB, 2S-10-H/HOG

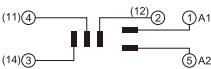


Maximum current carrying capacity: 12 A

Outline drawing

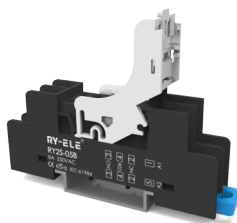


Wiring diagram



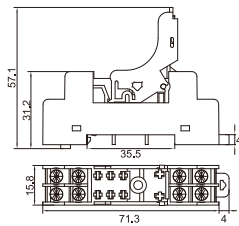
RY2S-05B-Screw wiring

Screw connection, black base, can be equipped with connection strips ES-10-16H/HR/HB, 2S-10-H/HOG



Maximum current carrying capacity: 8 A

Outline drawing

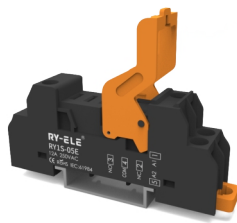


Wiring diagram



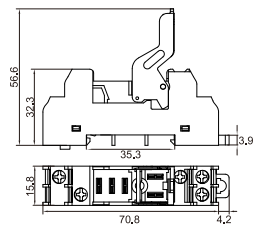
RY1S-05E-Screw wiring

Screw connection, black base with finger protection, can be equipped with connection strip ES-10-16H/HR/HB,2S-10-H/HOG

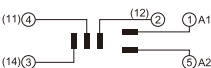


Maximum current carrying capacity: 12 A

Outline drawing



Wiring diagram

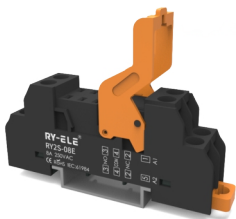


Matching base

Unit:mm

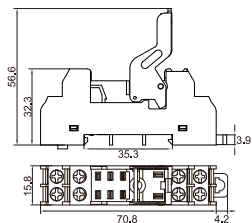
RY2S-08E-Screw wiring

Screw connection, black base with finger protection, can be equipped with connection strip ES-10-16H/HR/HB,2S-10-H/HOG

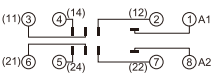


Maximum current carrying capacity: 8 A

Outline drawing

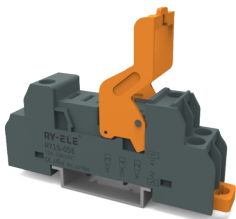


Wiring diagram



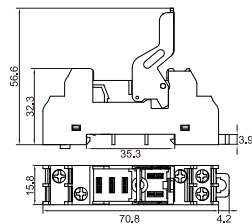
RY1S-05E-Screw wiring

Screw connection, grey base with finger protection, can be equipped with connection strip ES-10-16H/HR/HB,2S-10-H/HOG

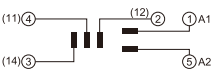


Maximum current carrying capacity: 12 A

Outline drawing

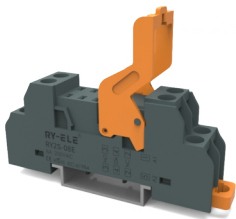


Wiring diagram



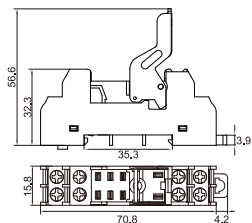
RY2S-08E-Screw wiring

Screw connection, grey base with finger protection, can be equipped with connection strip ES-10-16H/HR/HB,2S-10-H/HOG

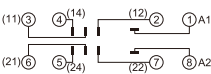


Maximum current carrying capacity: 8 A

Outline drawing



Wiring diagram

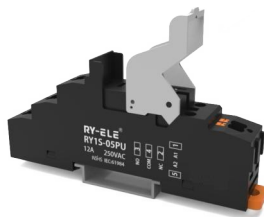


Matching base

Unit:mm

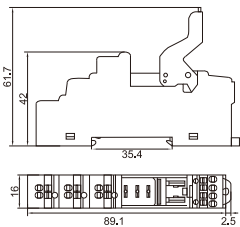
RY1S-05PU-Push-in wiring

Push-in cable, black base, can be equipped with connection strip 14F-H1B



Maximum current carrying capacity: 12 A

Outline drawing

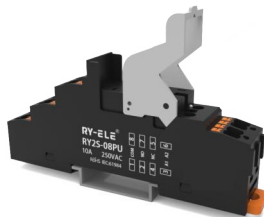


Wiring diagram



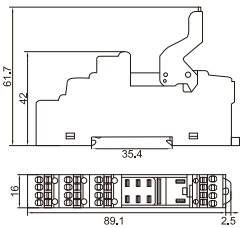
RY2S-08PU-Push-in wiring

Push-in cable, black base, can be equipped with connection strip 14F-H1B

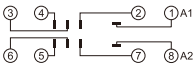


Maximum current carrying capacity: 8 A

Outline drawing

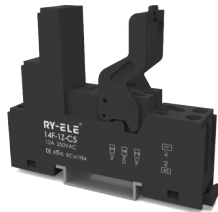


Wiring diagram



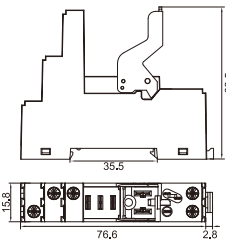
14F-1Z-C5-Screw wiring

Screw wiring, black base, can be equipped with connector strip 14F-H1B



Maximum current carrying capacity: 12 A

Outline drawing



Wiring diagram



Matching base

Unit:mm

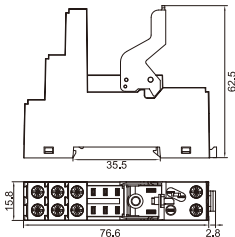
14F-2Z-C5-Screw wiring

Screw wiring, black base, can be equipped with connector strip 14F-H1B

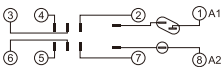


Maximum current carrying capacity: 8 A

Outline drawing



Wiring diagram



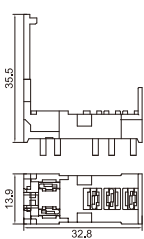
SJ1S-61-PCB board soldering

PCB board soldering base, black soldering footholder

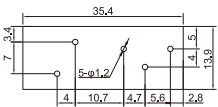


Maximum current carrying capacity: 12 A

Outline drawing



PCB cut-out size



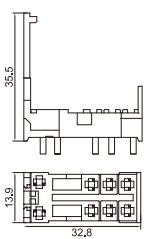
SJ2S-61-PCB board soldering

PCB board soldering base, black soldering footholder

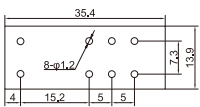


Maximum current carrying capacity: 8 A

Outline drawing



PCB cut-out size




Matching base

Unit:mm

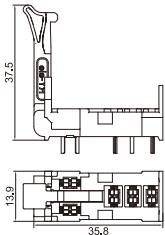
1S-61-S-PCB board soldering

PCB board soldering base, black soldering footholder

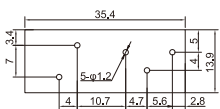


 Maximum current carrying capacity: 12 A

Outline drawing




PCB cut-out size



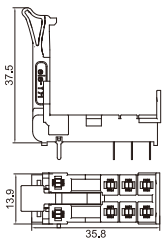
2S-61-S-PCB board soldering

PCB board soldering base, black soldering footholder

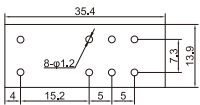


 Maximum current carrying capacity: 8 A

Outline drawing



PCB cut-out size

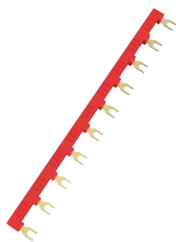


Optional accessories

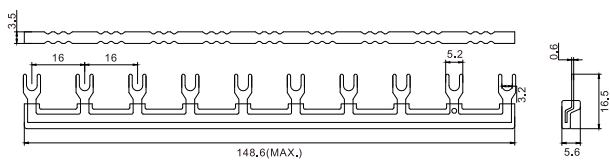
Unit:mm

ES-10-16HR-10-position plug-in connecting strip

10-position plug-in connector, croppable, length 148.6mm, color: red

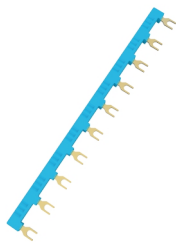


Outline drawing

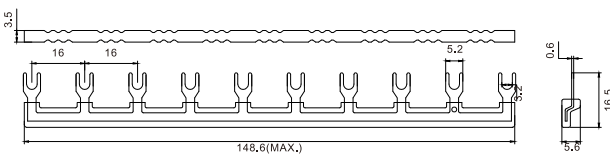


ES-10-16H-10-position plug-in connecting strip

10-position plug-in connector, croppable, length 148.6mm, color: blue

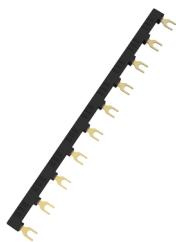


Outline drawing

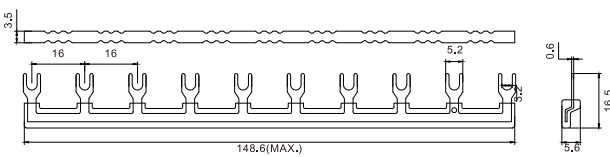


ES-10-16HB-10-position plug-in connecting strip

10-position plug-in connector, croppable, length 148.6mm, color: black



Outline drawing





Optional accessories

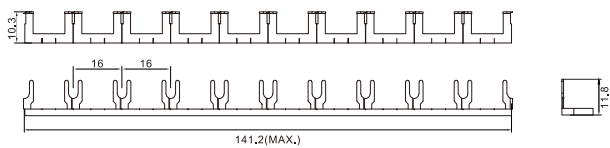
Unit:mm

2S-10-HOG-10-position plug-in connecting strip

10-position plug-in connecting strip, detachable, length 141.2mm, color: orange

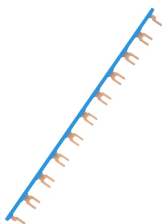


Outline drawing

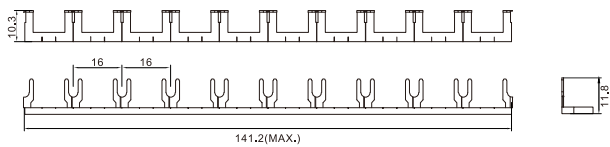


2S-10-H-10-position plug-in connecting strip

10-position plug-in connecting strip, detachable, length 141.2mm, color: blue

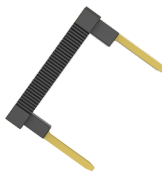


Outline drawing



14F-H1B-10-position plug-in connecting strip

2-position plug-in connector, splicable, length 16.8mm, color: black



Outline drawing

