

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



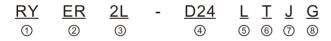
### Characteristics

- Multiple sizes, including built-in LEDs
- Two sets of contact conversion forms
- Contact load capacity 12A 250VAC/30VDC
- Dust cover type package
- The mechanical life is more than 20 million times
- The withstand voltage between the coil contacts is 2000V
- Meet the use of sockets

## Order specifications

Order number	RYER2L-D24L RYER2L-A220L
Packing Units	20 pcs
Minimum order quantity	20 pcs
Unit weight (including packaging)	I
Unit weight (without packaging)	about 33 g
Origin	WZ

## 订货标记示例



- ① RY:Enterprise code
- ② Relay series
- 3 Contact conversion: 2L = two sets of conversion high current
- 4 Coil voltage: refer to the coil parameter table
- ⑤ L = with LED light; None = No LED lights
- ⑥ T=with test button; None = without test button
- ② J=with freewheeling diode; None = without freewheeling diode
- ® G = contact gold plating; None = contacts are not gold-plated

### O 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	2NO2NC
Contact resistance(1)	≤50mΩ
Contact material	AgSnO2
Contact load	12A
Maximum switching voltage	250VAC/30VDC
Maximum switching current	12A
Maximum switching power	1750VA/210W
Mechanical durability(No load)	More than 20 million times
Electrical life	2×10 <sup>5</sup>

## Performance parameters

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Insulation resistance	≥1000MΩ(500VDC)
	Between the contact and the coil 2000VAC 1min
The medium is pressure-resistant	Between the same pole contacts 2000VAC 1min
	Between heteropolar contacts 2000VAC 1min
Action time	≤25ms
Release time	≤25ms
Coil temperature rise	≤85K
Impulse voltage	Waveform: 1.2/50us 4000V
Shock resistance	60HZ amplitude 2mm
Humidity	5~85%RH
Temperature	-40°C~+80°C (no icing)
Lead-out form	Plug-in
Encapsulation	Solder mask type

# Coil parameters

Rated coil power	DC: about0.9W
	AC : about1.2VA

### Note:

1. The above values are initial.



## Contact Parameters (DC Specification: 0.9W)

23°C
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Rated voltageVDC	6	12	24	48	110(3)	220
Operating voltage(1)VDC	≤4.5	≤9.0	≤18.0	≤36.0	≤82.5	≤165.0
Release voltageVDC	≥0.6	≥1.2	≥2.4	≥4.8	≥11.0	≥22.0
Maximum voltage <sub>(2)</sub> VDC	6.6	13.2	26.4	52.8	121.0	242.0
Coil resistance( $\pm 10\%$ ) $\Omega$	40	160	640	2600	13450	42000

## Contact Parameters (AC Specification: 1.2VA)

23°C

Rated voltageVAC	6	12	24	48	110(3)	220(3)	380
Operating voltage(1)VAC	≤4.8	≤9.6	≤19.2	≤38.4	≤88.0	≤176.0	≤304.0
Release voltageVAC	≥1.8	≥3.6	≥7.2	≥14.4	≥33.0	≥66.0	≥114.0
Maximum voltage <sub>(2)</sub> VAC	6.6	13.2	26.4	52.8	121.0	242.0	418.0
Coil resistance(±10%) $\Omega$	12	45	180	700	3750	14500	42000

#### Note

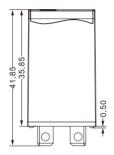
- (1) At room temperature, when the relay operates normally, the minimum value of the voltage applied to the coil foot of the relay shall not be less than 75% of the rated voltage value, but in order to achieve it specified product performance, please apply the rated voltage to the coil when using;
- (2) The maximum voltage refers to the maximum voltage that the relay coil can withstand in a short time;
- (3) A110: Rated voltage (100~110) Va.c;
  - A220: Rated voltage (220~240)Va.c;
  - A110: Rated voltage (100~110) Vd.c.

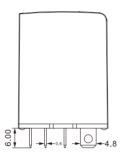


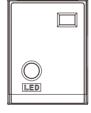
## **Exterior Dimension Drawing**

Unit:mm

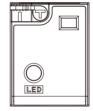
Vertical mounting type with pins



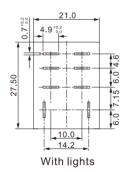


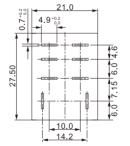


With lights



Strip test button with light



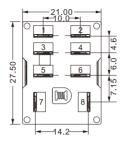


Strip test button with light

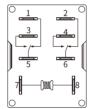
Schematic diagram of PCB mounting holes



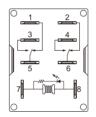
### Bottom view



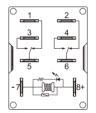
## Wiring diagram



Two-group conversion



Two-group conversion (with LED emitting diode)



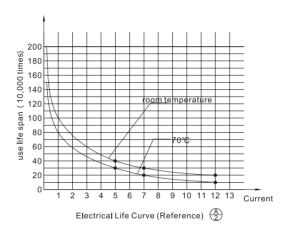
Two-group conversion (DC with freewheeling diode)

### Note:

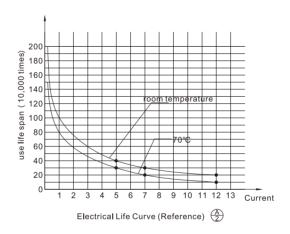
- 1. The overall dimensions of the product are not marked with dimensional tolerance, when the overall dimensions are ≤1mm, the tolerance is ±0.2mm; When the overall dimensions are between (1~5)mm, the tolerance is ±0.3mm; When the overall size > 5mm, the tolerance is ±0.4mm;
- 2. The size tolerance of the mounting hole is  $\pm 0.1$ mm;
- 3. DC with freewheeling diode products need to confirm the positive and negative electrodes before wiring.



## Performance graphs



Two-group conversion (with LED emitting diode)



Two-group conversion (DC with freewheeling diode)





## Characteristics

- The withstand voltage of the medium can reach 2000 VAC, and the insulation resistance is  $1000M\Omega$
- PCB, screw, and rail mounting styles are available
- A variety of plug-in modules are available to achieve power-on indication and line protection
- Optional accessories: circlip, marker, plug-in module
- With finger protection function

# Order specifications

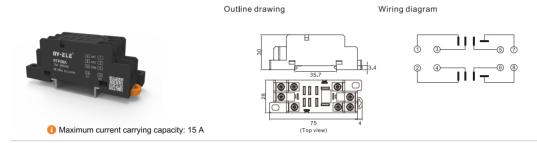
Model	Rated voltage	Curren rating	Ambient temperature	Pressure- resistant	Screw torque	External wires	Weight
RTF08A	250VAC	15A	-35°C~70°C	2000VAC	0.8-1.0N.m	7mm	about45g
RTF08A-E	250VAC	15A	-35°C~70°C	2000VAC	0.8-1.0N.m	7mm	about47g
RTF08A2	250VAC	15A	-35°C~70°C	1800VAC	0.8-1.0N.m	7mm	about33g
RTF08A-E2	250VAC	15A	-35°C~70°C	1800VAC	0.8-1.0N.m	7mm	about36g
RTF08A-PU	250VAC	15A	-35°C~70°C	2000VAC	-	7mm	about56g
RT08-C6	250VAC	15A	-35°C~70°C	2000VAC	0.8-1.0N.m	7mm	about49g
13F-2Z-A1	250VAC	15A	-35°C~70°C	3000VAC	-	7mm	about7.2g



RTF08A-Screw wiring

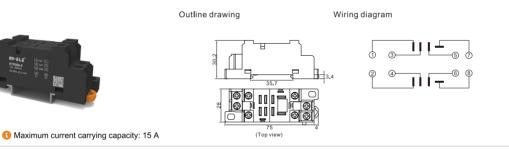
Unit:mm

Screw-type wiring, black base, compatible with connection strip LB-10-29H/HR/HB.



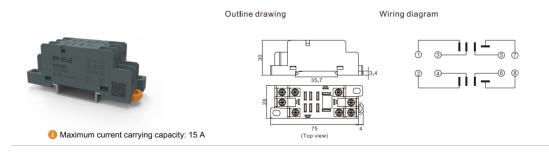
RTF08A-E-Screw wiring

Screw-type wiring, black base, with finger protection, compatible with connection strip LB-10-29H/HR/HB.



RTF08A-Screw wiring

Screw-type wiring, gray base, compatible with connection strip LB-10-29H/HR/HB.

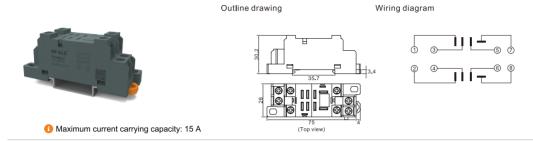




RTF08A-E-Screw wiring

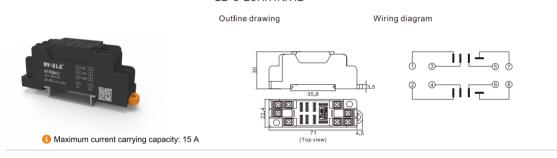
Unit:mm

Screw-type wiring, gray base, with finger protection, compatible with connection strip LB-10-29H/HR/HB.



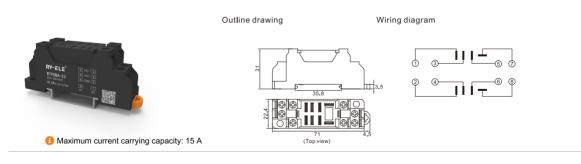
RTF08A2-Screw wiring

Screw terminals, black economy base, with connecting strips LB-8-23H/HR/HB



RTF08A-E2-Screw wiring

Screw terminals, black economy base with finger protection, available with connecting strip LB-8-23H/HR/HB



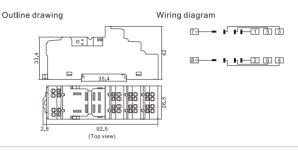


RTF08A-PU-Push-in wiring

Unit:mm



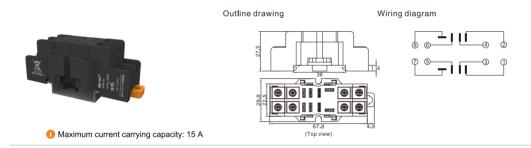
Plug-in connector, black base, available with connector strip 18F-27H, hook 18F-G, marking plate 18F-M  $\,$ 



Maximum current carrying capacity: 15 A

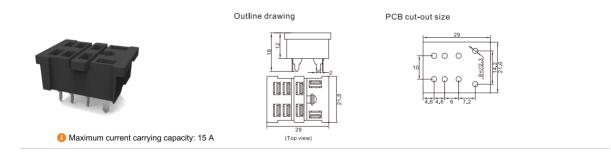
RT08-C6-Screw wiring

Screw-in wiring, black base, hooks available



13F-2Z-A1-Screw wiring

PCB soldering base, black solder base, can be equipped with hooks

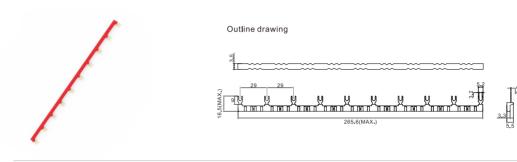




Unit:mm

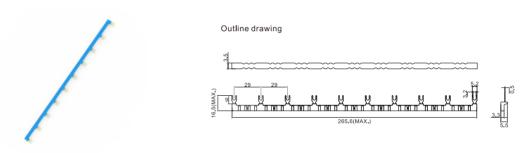
LB-10-29HR-10-position plug-in connecting strip

10-position plug-in connector, cuttable, length 265.6 mm, colour: red



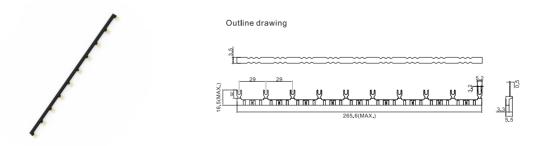
LB-10-29H-10-position plug-in connecting strip

10-position plug-in connector, cuttable, length 265.6 mm, colour: blue



LB-10-29HB-10-position plug-in connecting strip

10-position plug-in connector, cuttable, length 265.6 mm, colour: black





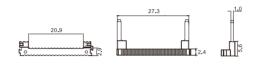
Unit:mm

18F-27H-2-position plug-in connecting strip

2-position plug-in connector, splicable, suitable for 18F-2Z-C4/18F-4Z-C4/18F-2Z-C5/18F-4Z-C5/RYF08A-PU/RTF08A-PU, color: black







18F-M-Marker signs

Marker Plate for 18F-2Z-C4/18F-4Z-C4/18F-2Z-C5/18F-4Z-C5/RYF08A-PU/RYF14A-PU/RTF08A-PU

Outline drawing





18F-G-Hooking

Hook for 18F-2Z-C4/18F-4Z-C4/18F-2Z-C5/18F-4Z-C5/RYF08A-PU/RYF14A-PU/RTF08A-PU





Outline drawing



