

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



Characteristics

- 4-way normally open relay module, only 32mm wide, suitable for compact installation
- DIN35 standard rail mounting
- Single contact load capacity 5A250VAC/30VDC
- With short connectors, common-positive wiring or common-negative wiring can be performed simply
- Relays with sockets for quick replacement and easy maintenance
- It has a protective cover against electric shock
- 0.2-1.5mm2/24-16AWG wide range wiring capacity

Order specifications

Order number	RY1H4-16/DC24
Packing Units	10 pcs
Minimum order quantity	10 pcs
Unit weight (without relay)	about 59 g
Unit weight (including relay)	about 70 g
Origin	WZ

Example of an order mark

- ① RY: Corporate Code
- ② Output channel type 1H: A set of normally open
- 3 The number of control channels is 4:4 channels
- 4 Input and output points 16: 16 points in total
- ⑤ Coil voltage: refer to the coil electrical parameter table
- ® Customer Code: Any letter or combination of letters

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.



Inputs

•	
Rated voltage	24VDC
Single-channel operating power consumption	< 250mW
Wiring polarity requirements	Yes (please note the wiring sequence)
Wiring	Fence type screw terminals
Controls the number of channels	4

Output

Relay model	Panasonic APAN3124 (see Annex 1)
Contact type	1NO
Rated voltage	250VAC/30VDC
Current rating	5A/way
Wiring	Fence type screw terminals
Minimum Load(1)	32mW
Maximum switching frequency	30 times/min (@1A-5A)
	60 times/min (@0.5A-1A)
	300 times/min (@ < 0.5A)

Other parameters

Operating temperature	-40°C~80°C	
Storage temperature	-40°C~80°C	
Vibration	10~55~10Hz Single amplitude 0.75mm (double a	mplitude 1.5mm)
	10~55~10Hz Single amplitude 0.75mm (double a	mplitude 1.5mm)
Impact	1000m/s²	
Standards Compliance	IEC61984	
Creepage distance	Between output channels	≥1.5mm
	Between the input and output channels	≥3mm
Air gaps	Between output channels	≥1.5mm
	Between the input and output channels	≥3mm
Overvoltage (1.2/50us)	Between output channels	2.5kV
	Between the input and output channels	2.5kV

Installation and maintenance

Installation	DIN35 rail mounting
Relay replacement	Replaceable
Comes with a short splice	Distribution (Part No.: RY1H4-H)

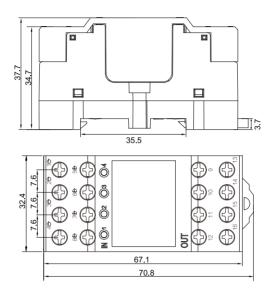
① Note:

1. Under the premise of satisfying the minimum load, the load voltage is $\geq 5V$, and the load current is $\geq 1mA$

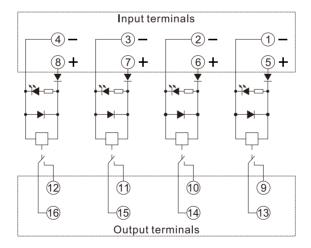


Exterior Dimension Drawing

Unit: mm



Wiring diagram



Wiring Instructions:

- 1. Input: 1, 2, 3, 4 are the negative terminal points of each input; 5, 6, 7, and 8 points are divided into positive terminal points for each input
- 2. Output: 9, 10, 11, 12 are the normally open points of each output; 13, 14, 15, and 16 are the moving contacts of each output



Appendix 1: Relay parameter table (Panasonic APAN3124)



Characteristics

- Low power consumption: 110mV
- Equipped with an optional socket
- Between contact and coil: 5.29 mm or more, along the surface: 5.35 mm or more
- Withstand voltage: 3000V, surge voltage: 6000V
- For high-density installations: 20×5×12.5mm
- Explosion-proof specifications (ANSI/ISA 12.12.01)
- Obtained IEC61010 certification in accordance with reinforced insulation standards

Contact parameters

Contact form	1H
Contact resistance	30mΩ or less (by 6VDC 1A voltage drop method)
Contact material	AgNi type Au
Contact load	5A 250VAC/30VDC
Maximum switching voltage	250VAC/30VDC
Maximum switching current	5A
Power consumption	200mW
Mechanical durability	More than 20,000,000 times (on/off frequency: 180 times/min)
Electrical durability	More than 50,000 times (on/off frequency 6 times/min), 5A
	More than 2,100,000 times (on/off frequency 20 times/min), 3A

Performance parameters

Rated coil power	110W
Insulation resistance	1000m $Ω$ or more
The medium is pressure-resistant	1000Vrms between contacts for 1 minute
	3000 Vrms between contact and coil for 1 minute
Flammability category under UI94	V-0



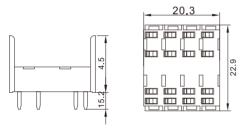
Appendix 2: PCB Solder Foot Holder (RY1H4-A1)



Characteristics

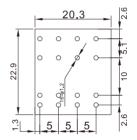
- Four-for-one
- Phosphor copper contact piece
- Pull-out pliers, fixed with locking function
- PCB soldering use

Exterior Dimension Drawing



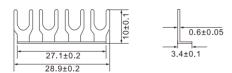
PCB cut-out dimension drawing

Unit: mm



Appendix 3: Supporting Short Splice (RY1H4-H)

Exterior Dimension Drawing



Appendix 4: Pull-out pliers (RY1H4-KEY)

Exterior Dimension Drawing

