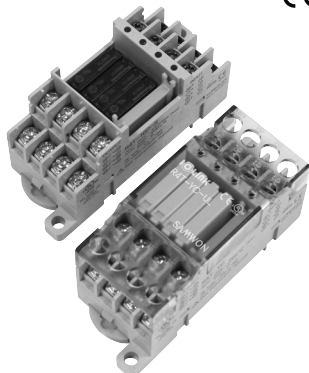


R4T-S Series 4Points, Mini Size

User's Guide



Thank you for purchasing product of SAMWON ACT.
Please check model of product that you purchase first, and read this manual prior to use it.

Caution for Safety

Caution Case that results in serious damage in human body or equipment, and fire if user handles this equipment wrongly

Warning Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

Caution

- Do not open the cover while the power is on or during operation.
It may cause electric shock.
- Be sure to shut off the power supply from the outside before mounting and wiring.
It is cause fire or electric shock.
- Do not use it the cable sheath is damaged.
It may cause electric shock.
- When machining and wiring the mounting hole, do not allow foreign matter such as dust or wire covering to enter the connection terminal.
Failure to do so may result in damage to the unit, heat, or ignition.

■ The connection cable for PLC of various makers is provided by us. Please refer to the catalogue or contact Head or branch office if you need more detail models and specifications.

Warning

- Use within the specified rated voltage and rated current range.
This may result in fire or damage to the product.
- Do not use outdoors.
Electric shock and product life may be shortened.
- Use within the specified temperature range. (-10°C ~ +50°C)
Damage to the outer case may occur.
- Do not use water or organic solvents for cleaning. Use a dry towel free of water.
It may cause electric shock and damage to the product.

Model Selection

Model	Installation Relay	IO Point(s)	Coil Rated voltage	Common		Interface		Dimensions (W×D×H)	Mounting method
				Coil	Contact	Coil	Contact		
R4T-4C-UL	TAKAMISAWA NYP-24W-K	4Point (1a×4)	24V DC	Individual Power (4P Short bar built)	IndividualCom. (4P Short bar built)	Coil	Contact	32.0×71.0	Screw Mounting DIN Rail (Channel)
R4T-16P-S	PANASONIC APAN3124					Screw terminal	7.62mm Pitch		

Product/Specification

Model	R4T-4C-UL	R4T-16P-S
Rated voltage	24VDC ±10%	
Power consumption Note1)	Approx. 10mA	Approx. 9.4mA
Rated load current Note2)	250VAC ~ 3A, 30VDC ± 3A	
Terminal pitch	7.62mm	
Suitable wire	AWG22~16 (1.25mm ² / MAX) (Use copper conductor only, 60°C only)	
Dielectric strength	Between coil and contact	3,000 Vrms for 1min
	Between common contacts	750VAC ~ 1min, 1,000 Vrms for 1min
Screw	M3 X 6L	
Screw torque	7~8kgf·cm (0.68~0.78 N·m)	
Inside environment Note3)	Ambient temperature	-10°C ~ +50°C
	Ambient humidity	35~85%RH
Material	Case	Modifide PPO
	Protective cover	Polycarbonate
Approval	UL	CE, UL
	Weight Note4)	Approx. 89g (Approx. 73g), Approx. 85g (Approx. 70g)

Note1) The power consumption including Operation Lamp(LED) current by one relay.

Note2) Except 30VDC of rated voltage for ϕ_{max}

Note3) The conditions of use of the environment items are that they are not freezing or condensing.

Note4) It is weight in packed condition, parenthesis is only the product weight.

Comparison of specification of relay

Item		NYP-24W-K	APAN3124
Contact	Arrangement	1a	1 Form A (Bifurcated)
	Nominal switching capacity (resistive load)	5A 250V AC/5A 30V DC	5A 250V AC, 5A 30V DC
	Max. switching current	5A	5A
	Max. switching voltage	270V AC/150V DC	250V AC/ 110V DC (0.4 A)
	Nominal voltage	24V DC	24V DC
Coil	Pick-up voltage	16.1V DC	70% max. of Rated voltage
	Drop-out voltage	2.4V DC	5% min. of Rated voltage
	Coil resistance	4,800Ω	5,236Ω
	Nominal operation power	120mW	110mW
	Surge voltage between contact and coil	5,080V	6,000V
Initial breakdown voltage between contact and coil		3,000V AC 1min	3,000V rms for 1min.
Country of origin		JAPAN	CHINA

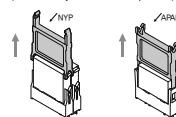
Applicable Crimp Terminal

	A	B	C	D	Suitable wire
Y type terminal	5.8 or higher	4.2 or lower	3.0 or higher	6.2 or lower	AWG 22~16 (0.30~1.25mm ²)
O type terminal	5.8 or higher	4.2 or lower	3.0 or higher	6.2 or lower	

※ Use crimp terminals for IOL approved products.

How to replace relay

(Remove Key is embedded in product)

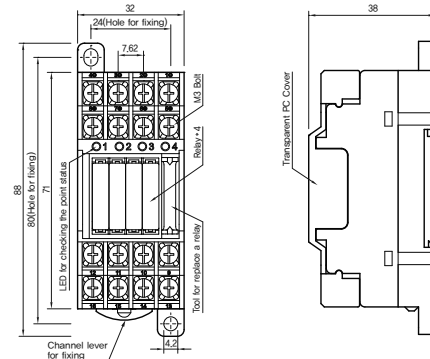


Component

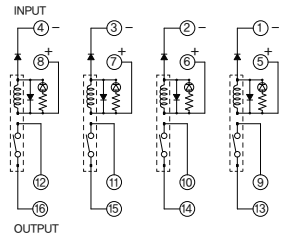
4-Pole Short bar(2ea)



Dimension



Wiring Diagram



Precautions for Use

- Use in the specified temperature and humidity.
- Use AWG 22 ~ 16 (1.25mm² / MAX) for the suitable wire, and check the crimp terminal after checking the "Applicable crimp terminal" specification.
- Input power should be isolated and supplied with limited voltage / current or Class 2, SELV power supply.
- When wiring the terminal block, please tighten it with the specified torque using the appropriate tool.
- If it is outside of this range torque, it may cause malfunction due to breakage or looseness of tightening surface terminal.
- When replacing a relay, please use the removal key provided. Using other tools, it may be damaged for relay socket.
- The device is suitable for use only within an acceptable enclosure which has mechanical reliability.
- Can be used under the following environmental conditions.
 - Indoor
 - Pollution degree2
 - Altitude 2,000m or less
 - Overvoltage Category II

※ The above specifications are subject to change without notice.

※ Please contact HQ or branch office where you purchased product for A/S of this product or technique.

Major products

- Relay terminal 1, 2, 4, 6, 8, 16, 32point
- Interface terminal 20, 24, 28, 34, 40, 48, 50, 40 x 2pole
- PLC I/O Connecting cables MITSUBISHI, LSIS, OMRON, FUJI, YOKOGAWA, HITACHI, SIEMENS, AB, etc.
- Servo Connecting cables Encoder cable, Power cable, Motion cable / MITSUBISHI, YASKAWA, OMRON, PANASONIC, LSIS, SAMSUNG, etc.
- Wiring harness / Special cable assembly



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