

R16C-A Series 16-Points Relay Terminal, 8P common type on load side

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 use other voltage except appointed voltage.
It may be the cause of fire or damage of equipment.
- Use it within nominal voltage and current which are marked on load.
It may be the cause of fire or damage of equipment.
- Check COMMON polarity of using controller (PLC, etc) first, and then select proper product.
It may be the cause of fire or damage of this equipment and user's.
 - COMMON Polarity of controller is '+' (NPN TYPE): R16C-NS5A-20P, R16C-YNT
 - COMMON Polarity of controller is '-' (PNP TYPE): R16C-PS5A-20P, R16C-YPT
- Make controller and connection cable between relay boards after checking internal wiring of relay board and PIN (terminal or socket) array of controller if you want to make it for yourself.
It may be the cause of fire, and malfunction or damage of this equipment and user's.

※ 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

- Plug or unplug power line and/or connector for signal after making sure to shut off power so as that it is prevented to be damaged or malfunctioned.
- Read this user's guide which is attached to product, and check product's performance, specification, operation pattern, signal, and how to handle prior to use. Keep user's guide please.
- 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.
- Use removal key which is supplemented for replacement.
Using other tools may be the cause of damage of relay or relay socket.

Ordering information

Model	Relay	IO Point	Coil voltage	Common		Interface		Dimension (W * Dmm)	Mounting method
				Coil	Contact	Coil	Contact		
R16C-YNT	TAKAMISAWA	16Point (1a * 16)	24V DC	NPN (COM)	8 Point Com.	Connector MIL-C-83503 20Pin	Screw Terminal 7.62mm Pitch 20Pole	90.6*70	DIN Rail (Channel)
R16C-YPT	NYP-24W-K			PNP (COM)					
R16C-NS5A-20P	PANASONIC			NPN (COM)					
R16C-PS5A-20P	APAN3124			PNP (COM)					

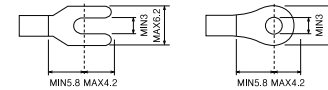
Comparison of specification of relay

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 (0.4A)
Coil	Nominal voltage	24V DC	24V DC
	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

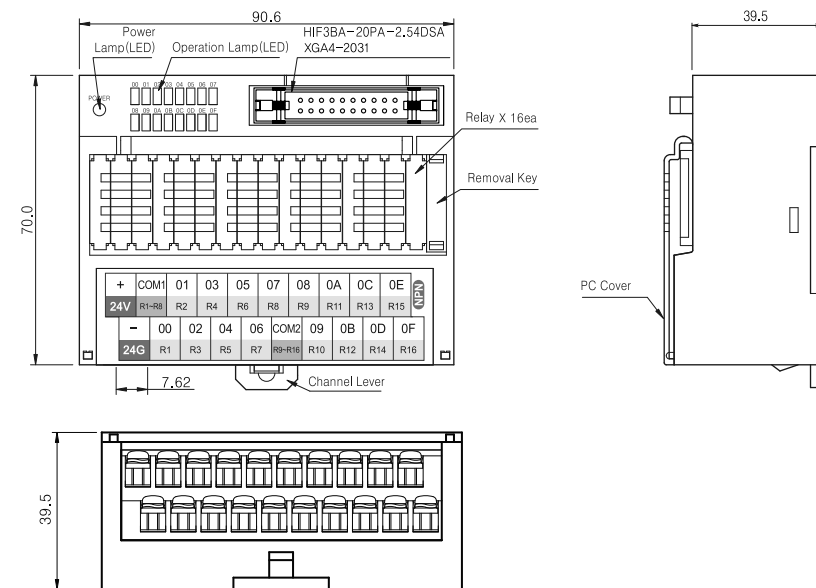
Material/Specification

Case	Modified PPO
Protective cover	Polycarbonate
PCB	Epoxy 1.6t / 2oz
Elec. wire	AWG22~16 (MAX / 1.5mm)
Terminal Screw	M3 X 8L
Screw Torque	7~8Kgf * cm (0.68~0.78 N * m)
Ambient temperature	-10℃ ~ +50℃ (No condensation)

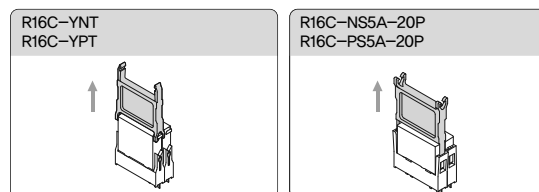
Applicable Crimp Terminal



Dimension



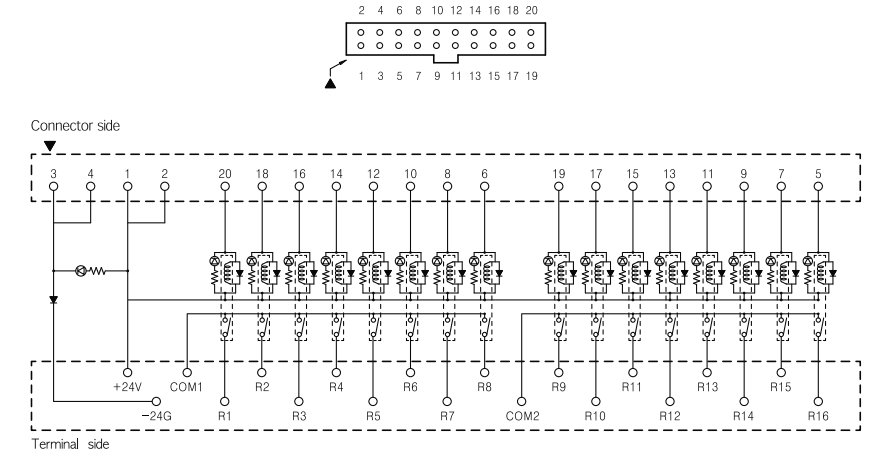
How to replace relay (Removal Key is embedded in product)



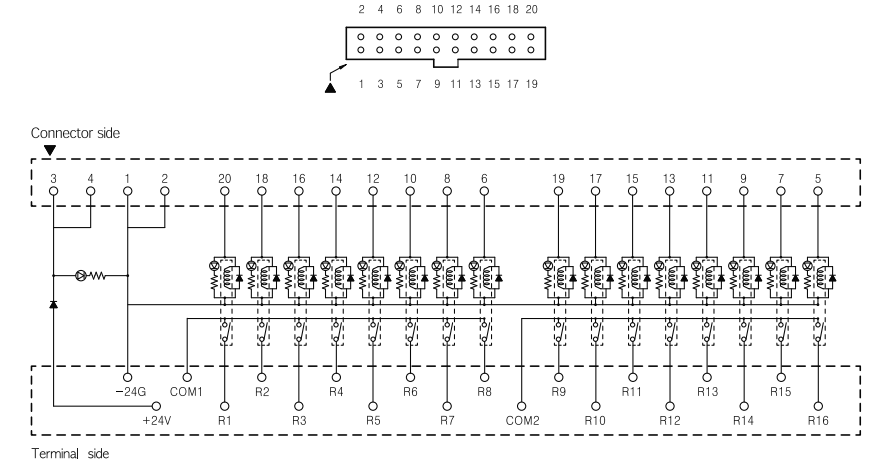
- Make sure to use removal key as shown in right figure when removing relay.
- Do Not make sure to use removal key when installing relay, and insert it into socket indirectly.

Wiring Diagram

- R16C-YNT / R16C-NS5A-20P (NPN) (COM)



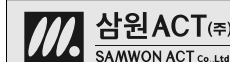
- R16C-YPT / R16C-PS5A-20P (PNP) (COM)



- ※ 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, 26, 34, 40, 50, 40 x 2pole
- PLC I/O Connecting cables MITSUBISHI, LSIS, CIMON, OMRON, FUJI, YOKOGAWA, HITACHI, SIEMENS, AB, etc.
- Servo Connecting cables Encoder cable, Power cable, Motion cable / MITSUBISHI, YASKAWA, OMRON, PANSONIC, LSIS, SAMSUNG, etc.
- Wiring harness / Special cable assembly



■ HQ : 47035, 28, Daedong-ro, Sasang-gu, Busan
TEL : (051)320-7777 FAX : (051)312-2233
■ SEOUL Office: 14353, M Cluster-707, 17, Deogan-ro
104beon-gil, Gwangmyeong-si, Gyeonggi-do
TEL : (02)837-2230 FAX : (02)837-2226