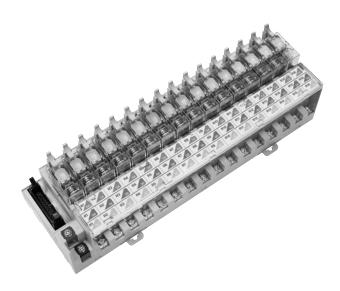


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R16A / R16P Series 16Points High Capacity Relay Terminal User's Guide



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

<u>Caution</u> 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

- 1. Do Not use other voltage except appointed voltage.
- It may be the cause of fire or damage of equipment,
- 2. Use it within nominal voltage and current which are marked on load.
- It may be the cause of fire or damage of equipment.
- 3. 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.
- 1) COMMON Polarity of controller is '+' (NPN TYPE): R16A(P)-NC-DC24V
- 2) COMMON Polarity of controller is '-' (PNP TYPE): R16A(P)-PC-DC24V
- 4. 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,

- 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.
- 3. 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.
- 4. When replacing a relay, check how to replace the relay on the back of the manual before using it.

Model Configuration

Model	Installation	10	Coil Rate	Common		Interface		Dimensions	Mounting
Model	Relay	Point(s)	voltage	Coil	Contact	Coil	Contact	(W * Hmm)	method
R16A-NC-DC24VC	SAMWON ACT SHN12324	16Point (1c*16)	24VDC	NPN +COM	Individual Com. (4P Short bar built)	Connector MIL-C- 83503 20Pin	Screw Terminal 13.5mm Pitch	236.0*77.0	DIN Rail (Channel)
R16A-PC-DC24VC				PNP GCOM					
R16P-NC-DC24VC	OMRON G2R-1-S DC24V	16Point (1c*16)	24VDC	NPN ⊕com					
R16P-PC-DC24VC				PNP -COM					

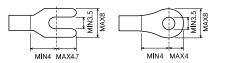
SHN/G2R Relay Specification

	Item	SHN12324	G2R-1-S DC24V	
	Arrangement	1 Form C (1C)	1 Form C (1C)	
	Nominal switching capacity (resistive load)	10A 250V AC / 10A 30V DC	10A 250V AC / 10A 30V DC	
Contact	Max, switching current	10A	10A	
	Max. switching voltage	250V AC / 30V DC	380V AC / 125V DC	
	Max. switching power	3,000VA, 360W	2,500VA, 300W	
	Nominal voltage	24V DC	24V DC	
	Pick-up voltage	75% max.	70% max.	
Coil	Drop-out voltage	10% min.	15% min.	
Coll	Coil resistance	1,100Ω	1,100Ω	
	Nominal operating power	Approx. 530mW	Appox. 530mW	
	Max. allowable voltage	110%	170%	
Initial bre	eakdown voltage between contact and coil	5,000VAC/1mm	5,000V AC 50/60Hz 1min	
Country of origin		CHINA	MALAYSIA	

Material/Specification

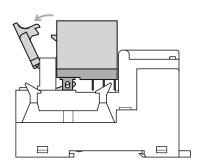
Case		Modified PPO		
Protective co	over	Polycarbonate		
P.C.B	Coil	Epoxy 1.6t		
Pin header	Contact	C2680 t0.8 / C2100 t0.3		
Applicable v	vire	AWG22~16 (MAX / 1.5m²)		
Terminal Sci	ew	M3.5 X 10L		
Screw torqu	e	7~8Kgf • cm (0.68~0.78 N • m)		
Ambient tem	perature	−10°C ~ +50°C (No condensation)		

Applicable crimp terminal



• How to replace relay

 When you push the lever as direction of an arrow, the relay will be removed.



. The relay will be installed to the socket with the lever tilted.

Accessories

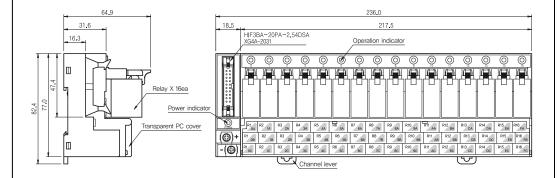
· 4Pole Short bar (4ea)



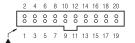
Replacement relay

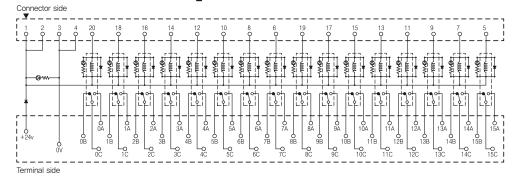
R16A	SHN12324
R16P	G2R-1-S DC24V

Dimension



- Wiring Diagram
- R16A-NC-DC24V (NPN) +COM
- R16P-NC-DC24V (NPN) +COM





- R16A-PC-DC24V (PNP) -com
- R16P-PC-DC24V (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, 57, 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, PANASONIC, , 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
- SEOUL Office: 14353, M Cluster-707, 17, Deoga 104beon-gil, Gwangmyeong-si, Gyeonggi-do TEL: (02)837-2230 FAX: (02)837-2226