

S4A Series 4Points DC input/AC Load SSR Board

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

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.
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.

⚠ Warning

1. 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.
2. 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. Use removal key which is supplemented for replacement.
Using other tools may be the cause of damage of relay or relay socket.

● Model Selection

Model	Installation Relay	IO Point(s)	Input Rated voltage	Common		Interface		Dimensions (W×Dmm)	Mounting method
				Input	Output	Input	Output		
S4A-5V-ZZ	PANASONIC AQG22105	4Point (4a × 4)	5V DC	Individual Power (4P Short bar built)	Individual Com. (4P Short bar built)	Screw Terminal 8.5mm Pitch		43.6 × 77.4	Screw mounting DIN Rail (Channel)
S4A-12V-ZZ	PANASONIC AQG22112		12V DC						
S4A-24V-ZZ	PANASONIC AQG22124		24V DC						

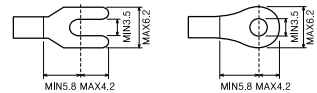
● AQG22124 Specification (Ambient temperature 25℃)

Item		AQG22124		
		AQG22105	AQG22112	AQG22124
Input	Input voltage	4 to 6 V DC	9.6 to 14.4 V	19.2~28.8V DC
	Input impedance	Approx. 0.3kΩ	Approx. 0.8kΩ	Approx. 1.6kΩ
	Drop-out voltage, min.	1V		
	Reverse voltage	3V		
Output	Max. load current	2A AC (Max.25℃)		
	Load voltage	75 to 264V AC		
	Frequency	45 to 65 Hz		
	Non-repetitive surge current	30A (In one cycle at 60Hz)		
	Max."OFF"-state leakage current	1.5mA (at 60Hz / 200V AC)		
	Max."ON"-state leakage drop	1.6V (at Max. carrying current)		
	Min. load current	20mA		
Characteristics	Operate time, max.	1/2 cycle of voltage sign wave+1ms		
	Release time, max.	1/2 cycle of voltage sign wave+1ms		
	Breakdown voltage	3000V rms/1min (between input and output)		
	Insulation resistance, min	10Ω (between input and output)		
Country of origin		JAPAN		

● Material/Specification

Case	Modified PPO
Protective cover	Polycarbonate
P.C.B	Epoxy 1.6t / 2oz
Applicable wire	AWG22~16 (MAX 1.5mm)
Terminal Screw	M3.5 X 10L
Screw torque	7~8kgf・cm (0.68~0.78 N・m)
Ambient temperature	-10℃ ~ +50℃ (No condensation)

● Applicable crimp terminal

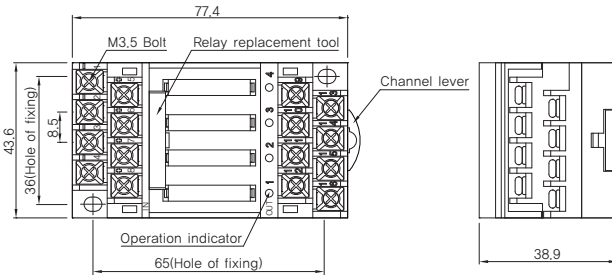


● Accessories

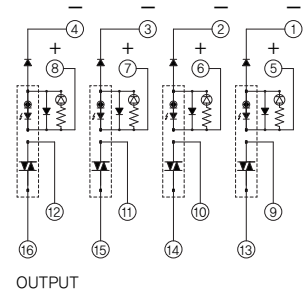
- 4Pole Short bar (2ea)



● Dimension



● Diagram INPUT



※ 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

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