

S4T-16P 4Points

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. Please make sure to check the internal wiring diagram of the relay board and the arrangement of the controller PIN (terminal) when wiring the relay board between the controller (PLC etc.).
It may be the cause of malfunction or damage of this equipment and user's.

⚠ Warning

1. Terminal wiring of power line and 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.

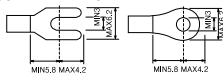
- Model Selection

Model	Installation Relay	IO Point(s)	Coil Rated voltage	Common		Interface		Dimensions (W×Dmm)	Mounting method
				Coil	Contact	Coil	Contact		
S4T-16P-202D	PANASONIC AQZ202D	4Point (1a × 4)	5~24V DC	Individual Power (4P Short bar built)	Individual Com. (4P Short bar built)	Screw Terminal 7.62mm Pitch		32.0×71.0	Screw mounting/ DIN Rail (Channel)

- **Material/Specification**

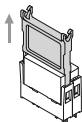
Rated voltage	24V DC \pm 10%
Rated load voltage / current	60V AC/DC 2.7A
Case	Modified PPO
Protective cover	Polycarbonate
P.C.B	Epoxy 1.6t / 2oz
Applicable wire	AWG22~16 (MAX / 1.5mm)
Terminal Screw	M3 X 6L
Screw torque	7~8kgf \cdot cm (0.68~0.78 N \cdot m)
Ambient temperature	-10 $^{\circ}$ C ~ +50 $^{\circ}$ C (No condensation)

- Applicable crimp terminal



- How to replace relay

(Removal Key is embeded in product)



- Accessories

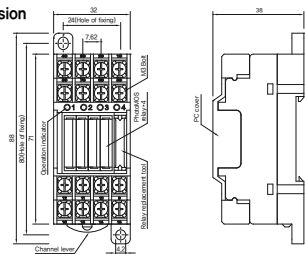
- 4 Pole Short bar (2ea)



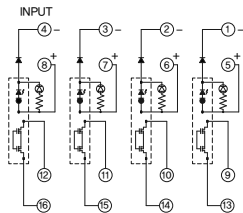
● AQZ202D Specification (Ambient temperature 25℃)

Item				AQZ202D
Input	Input voltage			30V
	Input reverse voltage			5V
	Power dissipation			300mW
	Operate voltage	Typical	1.4V	
		Maximum	4V	
	Turn off voltage	Minimum	0.8V	
Typical		1.3V		
Output	Load voltage (Peak AC)			60V
	Continuous load current (Peak AC)			2.7A
	Peak load current			9.0A
	Power dissipation			1.6W
Transfer characteristics	Switching speed	Turn on time	Typical	5.8ms
			Maximum	10.0ms
		Turn off time	Typical	0.2ms
			Maximum	3.0ms
Total power dissipation				1.6W
I/O isolation voltage				2,500V AC
Country of origin				JAPAN

- Dimension



- **Wiring Diagram**



※ 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.



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NO.201401-OM-ENG-S4T-16P(rev.01)

S4T-16P-202D-UL 4Points

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- 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 if 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 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		
S4T-16P-202D-UL	PANA-SOMC AQ2202D	4Point (1a × 4)	5~24V DC	Individual Power (4P Short bar built)	IndividualCom. (4P Short bar built)		Screw terminal 7.62mm Pitch	32.0×71.0	Screw Mounting DIN Rail (Channel)

Product/Specification

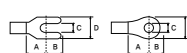
Model	S4T-16P-202D-UL	
Rated voltage	24VDC ±10%	
Power consumption ^{Note1)}	Approx. 11.5mA	
Rated load current ^{Note2)}	24VDC ±2.0A	
Terminal pitch	7.62mm	
Suitable wire	AWG22~16 (1.25mm ² / MAX) (Use copper conductor only, 60°C only)	
Input-output Isolation Voltage	2,500VAC ~1min	
Screw	M3 X 6L	
Screw torque	7~8Kgf·cm (0.68~0.78 N·m)	
Inside environment ^{Note3)}	Ambient temperature	-10°C ~ +50°C
	Ambient humidity	35~85%RH
	Case	Modifire PPO
Material	Protective cover	Polycarbonate
	PCB	Epoxy 1.6t
Weight ^{Note4)}	Approx. 80g (Approx. 65g)	

Note1) The power consumption including Operation Lamp(LED) current by one relay.
Note2) This is the capacity when the operating temperature meets the values in the temperature characteristic graph.
Note3) The conditions of use of the environment items are that they are not freezing or condensing.
Note4) It is weight in packed condition, parentheses is only the product weight.

AQ2202D Specification (Ambient temperature 25°C)

Item		AQ2202D
Input	Input voltage	30V
	Input reverse voltage	5V
	Power dissipation	300mW
	Operate voltage	Typical 1.4V Maximum 4V
	Turn off voltage	Minimum 0.8V Typical 1.3V
	Load voltage (Peak AC)	60V
Output	Continuous load current (Peak AC)	2.7A
	Peak load current	9.0A
	Power dissipation	1.6W
	Switching speed	Typical 5.8ms Maximum 10.0ms
Transfer characteristics	Turn on time	Typical 0.2ms Maximum 3.0ms
	Turn off time	Typical 0.2ms Maximum 3.0ms
	Total power dissipation	1.6W
I/O Isolation voltage		2,500VAC
Country of origin		JAPAN

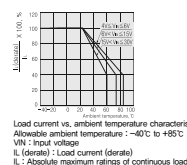
Applicable Crimp Terminal



	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
C type terminal	5.8 or higher	4.2 or lower	3.0 or higher	6.2 or lower	(0.30~1.25mm ²)

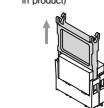
■ Use crimp terminals for UL approved products.

Temperature characteristic graph



How to replace relay

(Remove key is embedded in product)

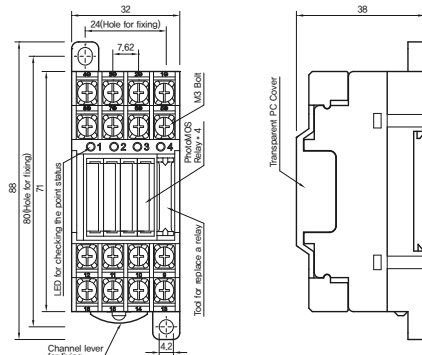


Component

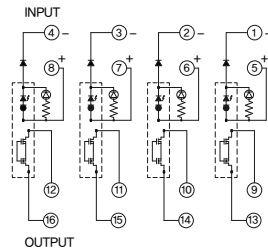
• 4Pole Short bar(2ea)



Dimension



Wiring Diagram



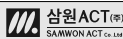
Precautions for Use

- 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, relay socket.
- The device is suitable for use only within an acceptable enclosure which has mechanical rigidity.
7. Can be used under the following environmental conditions.
① Indoor ② Pollution degree2 ③ Altitude 2,000m or less ④ 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, 26, 34, 40, 50, 40 x 2pole
- PLC I/O Connecting cables MITSUBISHI, LSIS, CIMON, OMRON, FUJII, YOKOGAWA, HITACHI, SIEMENS, AB, etc.
- Servo Connecting cables Encoder cable, Power cable, Motion cable / MITSUBISHI, YASKAWA, OMRON, PANASONIC, LSIS, SAMWON, etc.
- Wiring harness / Special cable assembly



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