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S32C-UL Series 32Points, PhotoMOS Relay mount

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 open the cover while the power is on or during operation.
- It may cause electric shock,
- 2. Be sure to shut off the power supply from the outside before mounting and wiring. It is cause fire or electric shock.
- 3. Do not use if the cable sheath is damaged
- It may cause electric shock
- 4. 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.

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- 1. Use within the specified rated voltage and rated current range,
- This may result in fire or damage to the product.
- 2 Do not use outdoors
- Electric shock and product life may be shortened,
- 3. Use within the specified temperature range, $(-10^{\circ}\text{C} \sim +50^{\circ}\text{C})$
- Damage to the outer case may occur.
- 4. 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,

Precautions for Use

- 2) Please check the common polarity of the controller(PLC etc..) you are using and select our products.

 1) If the common polarity of the controller is "+" polarity (NPN,SINK TYPE): S32C-NT-202D-UL

 2) If the common polarity of the controller is "-" polarity (PNP, SOURCE TYPE): S32C-PT-202D-UL
- 3. Use AWG 22 \sim 16 (1,25m² / MAX) for the suitable wire, and check the crimp terminal after checking the "Applicable crimp terminal" specification.
- 4. Input power should be isolated and supplied with limited voltage / current or Class 2, SELV power supply.
- 5. 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,
- 6. When replacing a relay, please use the removal key provided. Using other tools, It may be damaged for relay,
- The device is suitable for use only within an acceptable enclosure which has mechanical regidity.
- 8. Can be used under the following environmental conditions.
- ① Indoor ② Pollution degree 2 ③ Altitude 2,000m or less ④ Overvoltage Category II

Model Selection

Model	Relay	IO Point(s)	Coil Rated voltage	Common		Interface		Dimensions	Mounting
Model				Coil	Contact	Coil	Contact	(W * Dmm)	method
S32C-NT-202D-UL	PANSONIC	32Point	5~24V	NPN (COM)	8P COM.	Connector MIL-C-83503	Screw terminal 7.62Pitch	174.0*70.0	DIN Rail
S32C-PT-202D-UL	AQZ202D	(1a * 32)	DC	PNP COM	OP COM.	40Pin	40Pole	1/4.0*/0.0	(Channel)

Product/Specification

Model		S32C-NT-202D-UL	S32C-PT-202D-UL		
Rated voltage		24VDC == ±10%			
Power consumption 1	lote1)	Approx. 11.5mA			
Rated load current No	ote2)	24VDC == 1.6A (1.6A/1Point, 8A/1COM)			
Applicable connector	r	HIF3BA-40PA-2,54DSA or XG4A-4031-8			
Terminal pitch		7.62mm			
Suitable wire		AWG22~16 (1.25m² / MAX) (Use copper conductor only)			
Isolation voltage between input and output		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			
Material	Case	Modifide PPO			
	Protective cover	Polycarbonate			
	PCB	Epoxy 1.6t	Epoxy 1.6t		
Weight Note4)		Approx. 392g (Approx. 341g)			

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, parenthesized is only the product weight.

Applicable Crimp Terminal



	Α	В	С	D	Suitable wire
Y type terminal					
O type terminal	5,8 or higher	4,2 or lower	3,0 or higher	6,2 or lower	(0.30~1,25m²)

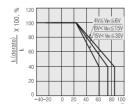
How to replace relay

(Removal Key is embeded in product)

AQZ202D Specification (Ambient temperature 25°C)

	AQZ202D					
	Input voltage	Input voltage				
Input	Input reverse vo	Input reverse voltage				
	Power dissipation	Power dissipation				
	Operate voltage		Typical	1.4V		
	Operate voltage		Maximum	4V		
	Turn off voltage	Turn off vallage		0.8V		
	Turn on voltage		Typical	1,3V		
	Load voltage (Pe	Load voltage (Peak AC)				
Output	Continuous load	Continuous load current (Peak AC)				
Output	Peak load curre	Peak load current				
	Power dissipation	Power dissipation				
Transper characteristics	Switching speed	Turn on time	Typical	5,8ms		
			Maximum	10,0ms		
		Turn off time	Minimum	0,2ms		
			Typical	3.0ms		
	1.6W					
	2,500VAC					
-	JAPAN					

Temperature characteristic graph



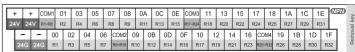
VIN: Input voltage

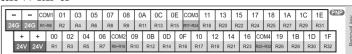
IL (derate): Load current (derate)

IL: Absolute maximum ratings of continuous load current

Terminal marking strips

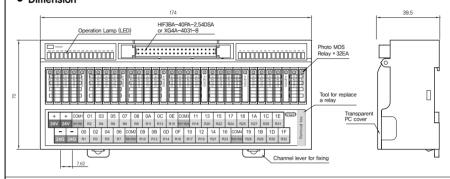
• S32C-NT-202D-UI





* It is attached to the window for user's convenience

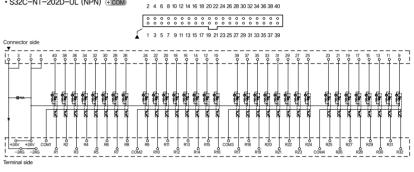
Dimension



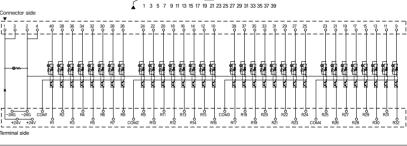
Wiring diagrm

(Unit: mm)

• S32C-NT-202D-UL (NPN) + COM



• S32C-PT-202D-UL (PNP) -COM 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39



* 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



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