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R32C-E Series 32Points, Mounting Push-typed Screwless Terminal Block

User's Guide

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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

- 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): R32C-YN-_, R32C-NS5A-_
- 2) COMMON Polarity of controller is '-' (PNP TYPE): R32C-YP-\(\text{R32C-PS5A-}\)
- 4. Please make sure to check the internal wiring diagram of the terminal block and the arrangement of the controller PIN (terminal) when making the connection cable between the controller (PLC etc.).
- It may be the cause of 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 0.68~0.78N · m 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	10	Coil Rate Comm		mon Inter		Interface Dimensions		Protection circuit
Standard type	Removal button type	Relay Point(s)	Point(s) voltage	Coil	Contact	Coil	Coil Contact		for contact	
R32C-YN-8E	R32C-YN-8E/B				NPN + COM	8P/2P Com.		44Pole		-
R32C-YN-C	R32C-YN-C/B			PNP GOOM NPN ⊕COM PNP GOOM		Individual Com.				
R32C-YP-8E	R32C-YP-8E/B				PNP (= com)	8P/2P Com.				
R32C-YP-C	R32C-YP-C/B	TAKAMISAWA				Individual Com.		Screw		
R32C-YN-8EV	R32C-YN-8EV/B	NYP-24W-K			NPN ⊕ com	8P/2P Com.		Terminal (Push type) 68Pole		Varistor
R32C-YN-CV	R32C-YN-CV/B		32Point 24			Individual Com.				
R32C-YP-8EV	R32C-YP-8EV/B	1			DND Coore	8P/2P Com.				
R32C-YP-CV	R32C-YP-CV/B				Individual Com.	Connector MIL-C-83503		178,5 • 70 DIN Rail		
R32C-NS5A-8E	R32C-NS5A-8E/B		(1a + 1)		I	8P/2P Com.	40Pin	Screw Terminal (Push type) 68Pole	(Channel)	-
R32C-NS5A-C	R32C-NS5A-C/B					Individual Com,				
R32C-PS5A-8E	R32C-PS5A-8E/B				PNP COM	8P/2P Com.				
R32C-PS5A-C	R32C-PS5A-C/B	PANASONIC APAN3124				Individual Com,				
R32C-NS5A-8EV	R32C-NS5A-8EV/B				NPN + COM	8P/2P Com.				Mandalan
R32C-NS5A-CV	R32C-NS5A-CV/B					Individual Com,				
R32C-PS5A-8EV	R32C-PS5A-8EV/B				DND COMM	8P/2P Com.				Varistor
R32C-PS5A-CV	R32C-PS5A-CV/B			PNP = COM	Individual Com,					

Relay Specification

	Item	NYP-24W-K	APAN3124	
	Arrangement	1a	1 Form A (Bifurcated)	
Contact	Nominal switching capacity (resistive load)	5A 250V AC / 5A 30V DC	5A 250V AC/5A 30V DC	
Contact	Max, switching current	5A	5A	
	Max, switching voltage	270V AC / 150V DC	250V AC/110V DC (0,4A)	
	Nominal voltage	24V DC	24V DC	
	Pick-up voltage	16,1V DC	70% max, of Rated voltage	
Coil	Drop-out voltage	2.4V DC	5% min, of Rated voltage	
	Coil resistance	4,800 Ω	5,236Ω	
	Nominal operation power	120mW	110mW	
Surge voltage	e between contact and coil	5,080V	6,000V	
Initial breakdo	own voltage between contact and coil	3,000V AC 1min	3,000V rms for 1min	
Country of ori	gin	JAPAN	CHINA	

Material/Specification

Terminal		PA6		
Pin header		Copper, Tin plated		
Wire guard		Stainless steel		
Cover		Modified PPO		
P.C.B		Epoxy 1,6t / 2oz		
Applicable	Single wire	0.5~1.5m²		
wire	Twisted wire	UL: 17~22AWG / IEC: 1,0m²		
Wire stripping length		9~10mm		

Appropriate tool

* Oriver



2.6mm*0.35t

Ferrule Selection



AWG/(m²)	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0,5	White	White/Orange	10.0	1,3	3,2
18/0,75	Gray	Blue/White	10.0	1.5	3.4
17/1.0	Red	Red/Yellow	10.0	1.7	3.6

Method of removal wire



When using a stranded wire, use a ferrule or a round type terminal. In case of a solid wire, use it without crimping tool

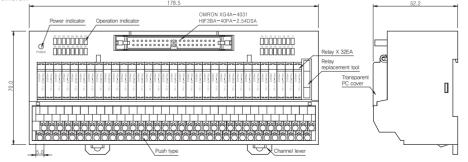


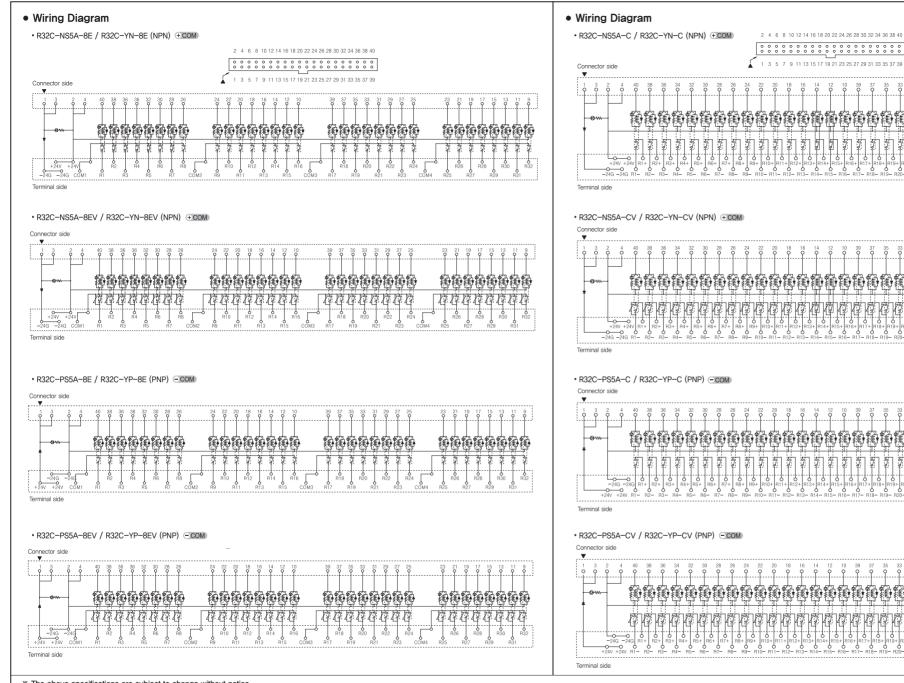
Insert into the terminal block without using a separate tool,



When disconnecting the wires, keep the disconnect button pressed with the driver (- type) and disconnect the wires,

Dimension





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- ■HQ: 47035, 28, Daedong-ro, Sasang-gu, Busan, Korea TEL: (051)320-7777 FAX: (051)312-2233
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- 1) COMMON Polarity of controller is '+' (NPN TYPE): R32C-YN-_, R32C-NS5A-_
- 2) COMMON Polarity of controller is '-' (PNP TYPE): R32C-YP-_, R32C-PS5A-_
- 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
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- 3, When wiring the terminal block, please tighten it with the 0.68~0,78N · m 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	10	Coil Rate	Com	Common		Interface		Protection circuit
Standard type	Removal button type	Relay	Point(s)	voltage	Coil	Contact	Coil	Contact	(W*Dmm)	for contact
R32C-YN-4C	R32C-YN-4C/B				NPN ⊕ COM	4P/4P Com.				
R32C-YN-8C	R32C-YN-8C/B					8P/8P Com.				
R32C-YP-4C	R32C-YP-4C/B				PNP (=com)	4P/4P Com.				_
R32C-YP-8C	R32C-YP-8C/B	TAKAMISAWA				8P/8P Com.				
R32C-YN-4CV	R32C-YN-4CV/B	NYP-24W-K			NPN (+ COM)	4P/4P Com.				
R32C-YN-8CV	R32C-YN-8CV/B				INFIN (+GOW)	8P/8P Com.				Varistor
R32C-YP-4CV	R32C-YP-4CV/B	1	32Point 34V Po		PNP -com	4P/4P Com.	Connector MIL-C-83503	Screw Terminal		Varistor
R32C-YP-8CV	R32C-YP-8CV/B			24V DC		8P/8P Com.				
R32C-NS5A-4C	R32C-NS5A-4C/B		(1a • 1)	(1a • 1)	NPN ⊕ com	4P/4P Com.	40Pin	(Push type)		
R32C-NS5A-8C	R32C-NS5A-8C/B					8P/8P Com.		68Pole		
R32C-PS5A-4C	R32C-PS5A-4C/B				PNP (=com)	4P/4P Com.				_
R32C-PS5A-8C	R32C-PS5A-8C/B	PANASONIC APAN3124			PNP - COM	8P/8P Com.				
R32C-NS5A-4CV	R32C-NS5A-4CV/B				NPN + COM	4P/4P Com.				
R32C-NS5A-8CV	R32C-NS5A-8CV/B					8P/8P Com.				Varistor
R32C-PS5A-4CV	R32C-PS5A-4CV/B				PNP = COM	4P/4P Com.				variStor
R32C-PS5A-8CV	R32C-PS5A-8CV/B					8P/8P Com.				

NYP/PA Relay Specification

	Item	NYP-24W-K	APAN3124	
	Arrangement	1a	1 Form A (Bifurcated)	
Contact	Nominal switching capacity(resistive load)	5A 250V AC/5A 30V DC	5A 250V AC/5A 30V DC	
Contact	Max, switching current	5A	5A	
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	Coil resistance	4,800 Ω	5,236 ♀	
	Nominal operation power	120mW	110mW	
Surge voltage	between contact and coil	5,080V	6,000V	
Initial breakdo	wn voltage between contact and coil	3,000V AC 1min	3,000V rms for 1min	
Country of ori	gin	JAPAN	CHINA	

Material/Specification

Terminal		PA6		
Pin header		Copper, Tin plated		
Wire guard		Stainless steel		
Cover		Modified PPO		
P,C,B		Epoxy 1.6t / 2oz		
Applicable	Single wire	0,5~1,5m²		
wire	Twisted wire	UL: 17~22AWG / IEC: 1,0m²		
Wire stripping length		9~10mm		

Appropriate tool

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2.6mm*0.35t

Ferrule Selection



AWG/(m²)	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0.5	White	White/Orange	10.0	1,3	3,2
18/0,75	Gray	Blue/White	10.0	1.5	3.4
17/1.0	Red	Red/Yellow	10.0	17	3.6

Method of removal wire



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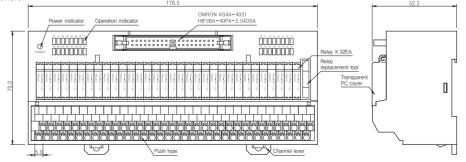


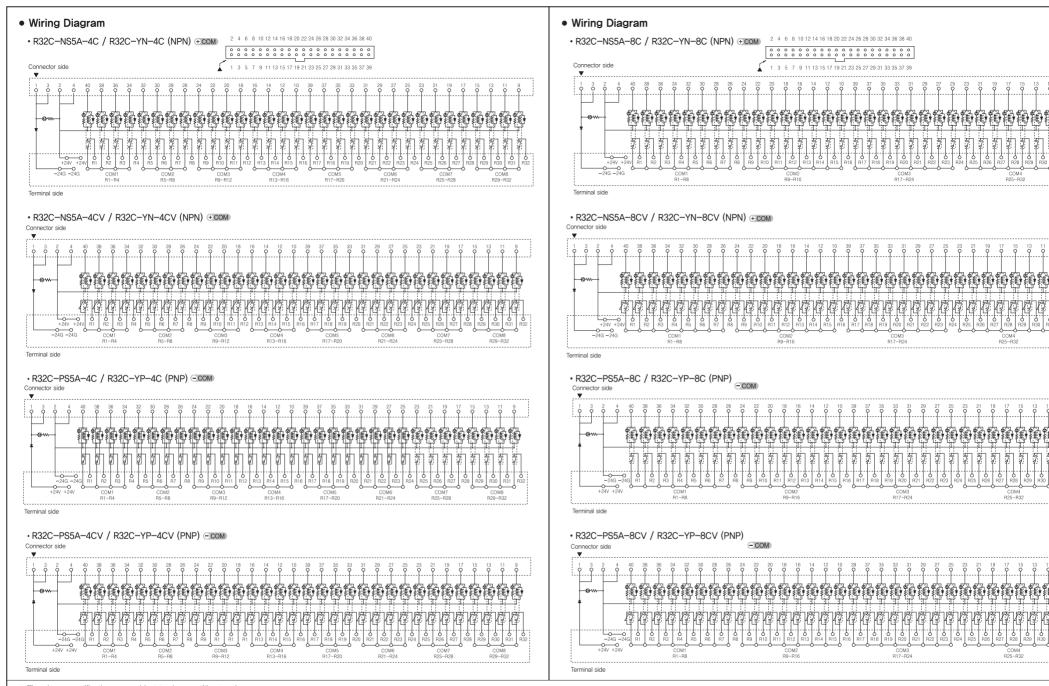
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