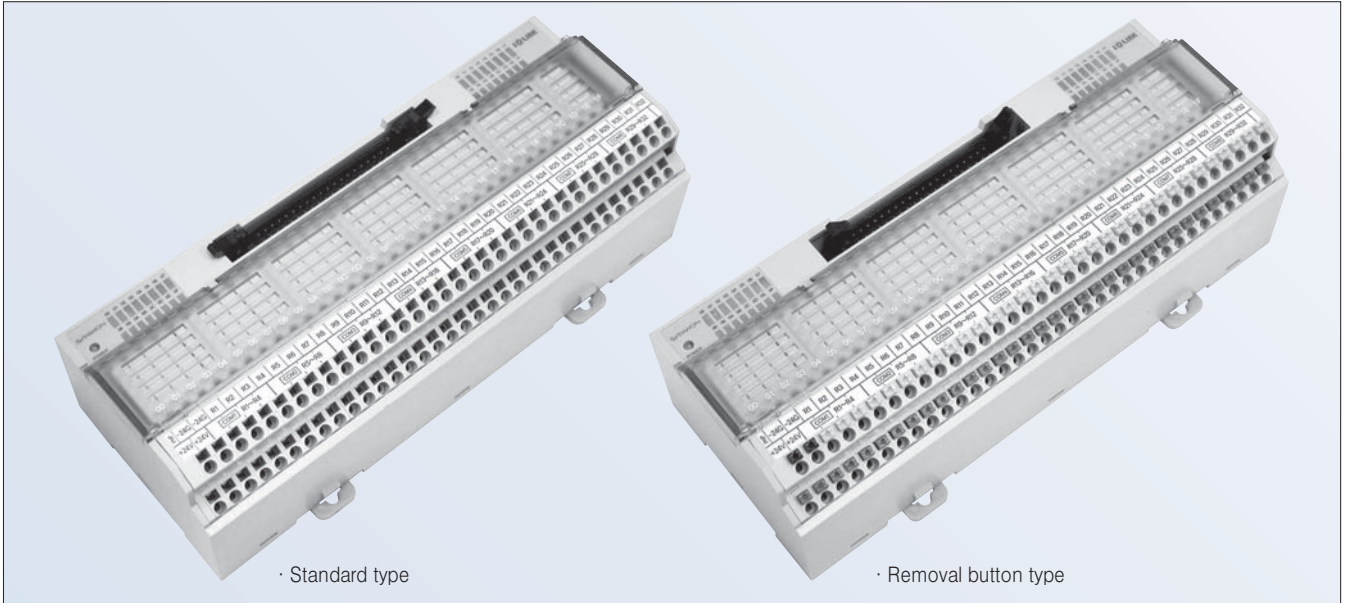


# R32C-E Series (32 points Relay Board, Push-typed Screwless Terminal Unit) CE

2 Models mounting Takamisawa / Panasonic Relay respectively available, 32 Points Individual Contact Relay Board for load

2



### ■ Features

- Wiring work performance is improved**  
 As the wiring for push-typed screwless terminal unit is carried out fast, the wiring process and working time are reduced
- Specification of Common for load according to the conveniences of users**  
 · As producing various kinds such as Individual, 4Points Com and 8Points Com, you can select any of them for your options.
- Strong anti-vibration structure**  
 As the terminal unit has a plate spring system inside, it has a reliable wiring state under the high vibration working environment.
- Production of Relay Board mounting Varistor for Contact Protection**  
 · As Varistor is attached to both ends of Relay Contact Point in parallel, the Contact Point can be protected from Arc which occurs when opening/closing the Contact Point, which expands the life of Relay.
- With/Without Removal Button**  
 · Product with Removal Button: It is easy to take off a wire by a flat or cross-headed screwdriver.
- Product without Removal Button:**  
 It is possible to check the state of connection after connecting wires. It is easy to take off a wire by a proper tool (flat screwdriver).

### ■ NYP / PA Relay specifications

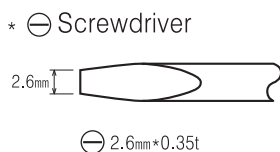
Item		NYP-24W-K	PA1a-24V
Contact	Arrangement	1a	1a
	Nominal switching capacity(resistive load)	5A 250V AC/5A 30V DC	5A 250V AC/5A 30V DC
	Max. switching current	5A	5A
	Max. switching voltage	270V AC/150V DC	250V AC/110V DC
Coil	Nominal voltage	24V DC	24V DC
	Pick-up voltage	16.1V DC	16.8V
	Drop-out voltage	2.4V DC	1.2V DC
	Coil resistance	4,800Ω	3,200Ω
	Nominal operation power	120mW	180mW
Surge voltage between contact and coil		5,080V	4,000V
Initial breakdown voltage between contact and coil		3,000V AC 1min	2,000V rms
Country of origin		JAPAN	CHINA

### ■ Material/Specification

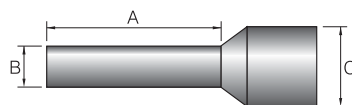
TB		PA6
Pin header		Copper, Tin plated
Wire guard		Stainless steel
Cover		Modified PPO
P.C.b		Epoxy 1.6t / 2oz
Applicable wire	Single wire	0.5~1.5mm <sup>2</sup>
	Twisted wire	UL : 17~22AWG / IEC : 1.0mm <sup>2</sup>
Wire stripping length		9~10mm

※ When using ACS(annealed copper stranded wire), Ferrule be used.

### ■ Tool



### ■ Ferrule Selection(Using strand wire)



AWG/mm <sup>2</sup>	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

### ■ How to connect/disconnect Cable

Same way SA series, in page 24.

# € R32C-E Series (32 points Relay Board, Push-typed Screwless Terminal Unit)

2 Models mounting Takamisawa / Panasonic Relay respectively available, 32 Points Individual Contact Relay Board for load

## Model Selection

### TAKAMISAWA NYP Relay

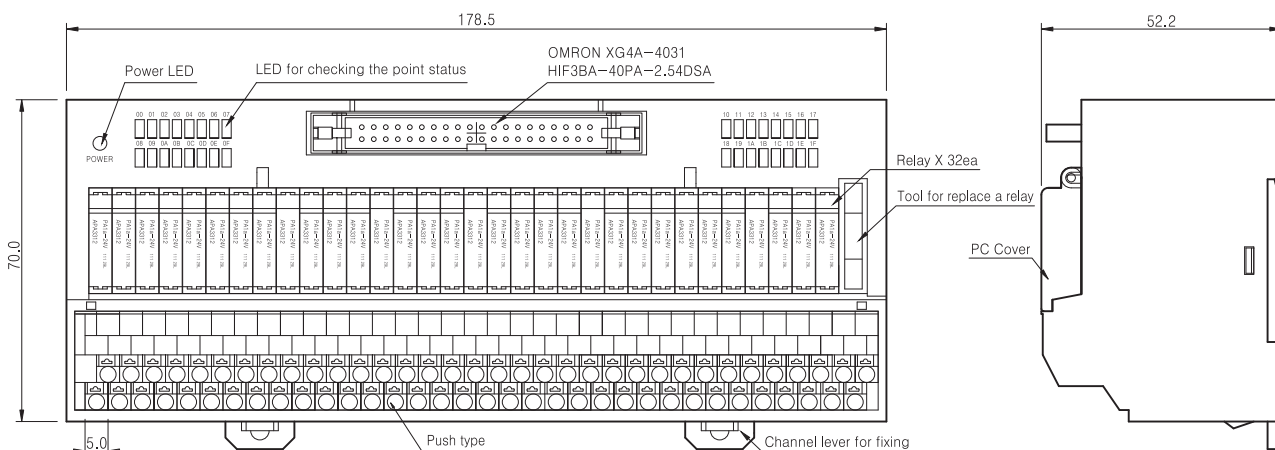
Model		Installation Relay	Point(s)	Rated voltage	Common		Interface		Dimension (W*D mm)	Contact protection circuit	
Standard type	Removal bottom type				Coil	Contact	Coil	Contact			
R32C-YN-8E	R32C-YN-8E/B	TAKAMISAWA NYP-24W-K	32Point (1a*32)	24V DC	NPN ⊕COM	8Points, 2Pole Com.	Connector MIL-C-83503 40Pin	Screw terminal (Push type) 68Pole	178.5*70.0 DIN Rail (Channel)	-	
R32C-YN-C	R32C-YN-C/B					Individual Com.					
R32C-YN-4C	R32C-YN-4C/B					4Points, 4Pole Com.					
R32C-YN-8C	R32C-YN-8C/B					8Points, 8Pole Com.					
R32C-YP-8E	R32C-YP-8E/B				PNP ⊖COM	8Points, 2Pole Com.					
R32C-YP-C	R32C-YP-C/B					Individual Com.					
R32C-YP-4C	R32C-YP-4C/B					4Points, 4Pole Com.					
R32C-YP-8C	R32C-YP-8C/B					8Points, 8Pole Com.					
R32C-YN-8EV	R32C-YN-8EV/B				NPN ⊕COM	8Points, 2Pole Com.					Varistor <sup>Note)</sup>
R32C-YN-CV	R32C-YN-CV/B					Individual Com.					
R32C-YN-4CV	R32C-YN-4CV/B					4Points, 4Pole Com.					
R32C-YN-8CV	R32C-YN-8CV/B					8Points, 8Pole Com.					
R32C-YP-8EV	R32C-YP-8EV/B				PNP ⊖COM	8Points, 2Pole Com.					
R32C-YP-CV	R32C-YP-CV/B					Individual Com.					
R32C-YP-4CV	R32C-YP-4CV/B					4Points, 4Pole Com.					
R32C-YP-8CV	R32C-YP-8CV/B					8Points, 8Pole Com.					

### PANASONIC PA Relay

Model		Installation Relay	Point(s)	Rated voltage	Common		Interface		Dimension (W*D mm)	Contact protection circuit	
Standard type	Removal bottom type				Coil	Contact	Coil	Contact			
R32C-NS5A-8E	R32C-NS5A-8E/B	PANASONIC PA1a-24V	32Point (1a*32)	24V DC	NPN ⊕COM	8Points, 2Pole Com.	Connector MIL-C-83503 40Pin	Screw terminal (Push type) 68Pole	178.5*70.0 DIN Rail (Channel)	-	
R32C-NS5A-C	R32C-NS5A-C/B					Individual Com.					
R32C-NS5A-4C	R32C-NS5A-4C/B					4Points, 4Pole Com.					
R32C-NS5A-8C	R32C-NS5A-8C/B					8Points, 8Pole Com.					
R32C-PS5A-8E	R32C-PS5A-8E/B				PNP ⊖COM	8Points, 2Pole Com.					
R32C-PS5A-C	R32C-PS5A-C/B					Individual Com.					
R32C-PS5A-4C	R32C-PS5A-4C/B					4Points, 4Pole Com.					
R32C-PS5A-8C	R32C-PS5A-8C/B					8Points, 8Pole Com.					
R32C-NS5A-8EV	R32C-NS5A-8EV/B				NPN ⊕COM	8Points, 2Pole Com.					Varistor <sup>Note)</sup>
R32C-NS5A-CV	R32C-NS5A-CV/B					Individual Com.					
R32C-NS5A-4CV	R32C-NS5A-4CV/B					4Points, 4Pole Com.					
R32C-NS5A-8CV	R32C-NS5A-8CV/B					8Points, 8Pole Com.					
R32C-PS5A-8EV	R32C-PS5A-8EV/B				PNP ⊖COM	8Points, 2Pole Com.					
R32C-PS5A-CV	R32C-PS5A-CV/B					Individual Com.					
R32C-PS5A-4CV	R32C-PS5A-4CV/B					4Points, 4Pole Com.					
R32C-PS5A-8CV	R32C-PS5A-8CV/B					8Points, 8Pole Com.					

Note) Varistormountedrelay boarddo not recommend to fast response circuit, it is recommend for inductive load. Users, see page 48 forcontact protectionmeasures

## Dimension



# R32C-E Series (32 points Relay Board, Push-typed Screwless Terminal Unit)

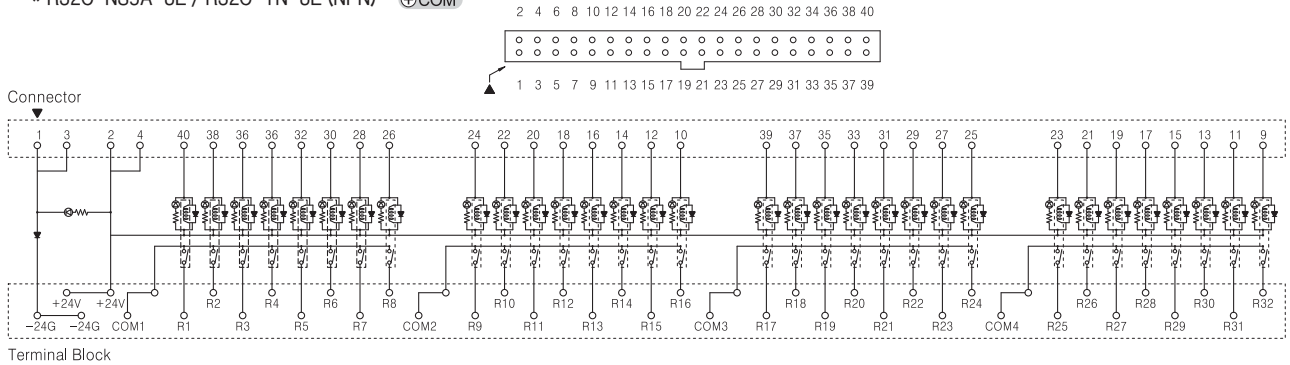


2 Models mounting Takamisawa / Panasonic Relay respectively available, 32 Points Individual Contact Relay Board for load

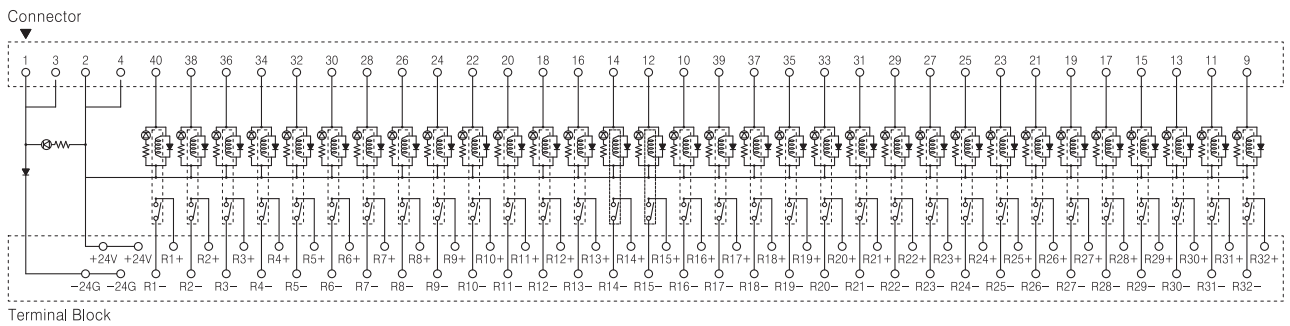
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## R32C-E Wiring diagram

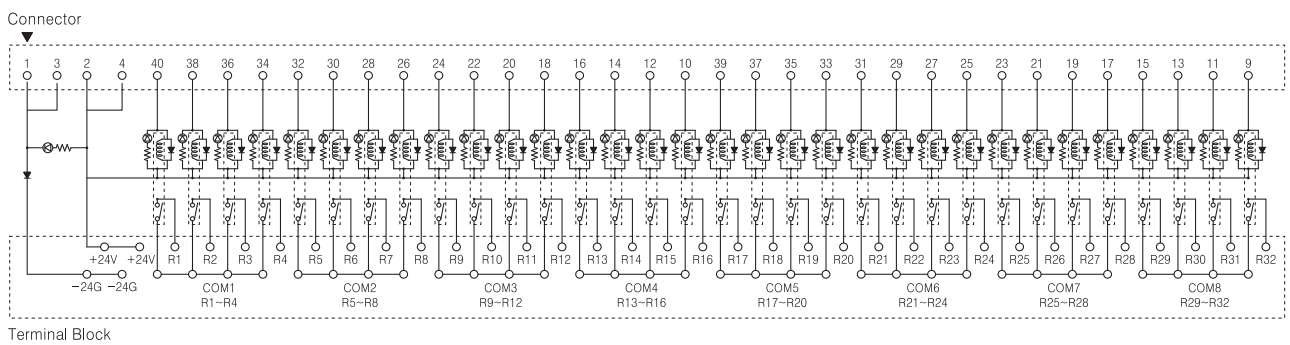
\* R32C-NS5A-8E / R32C-YN-8E (NPN) ⊕COM



\* R32C-NS5A-C / R32C-YN-C (NPN) ⊕COM



\* R32C-NS5A-4C / R32C-YN-4C (NPN) ⊕COM



\* R32C-NS5A-8C / R32C-YN-8C (NPN) ⊕COM

