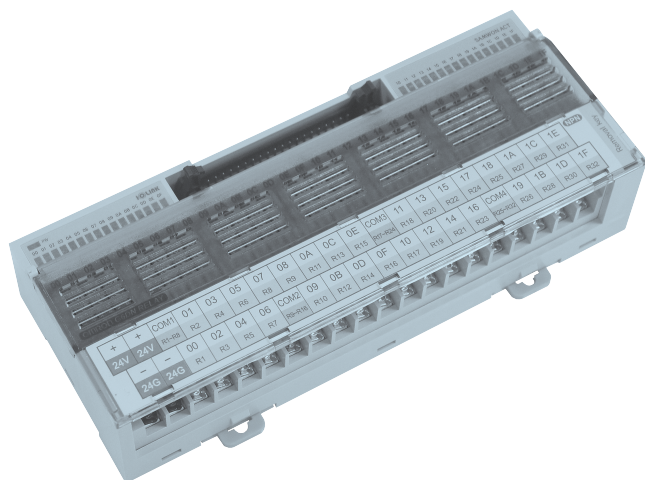


## R32C-G6DN Series 32Points, OMRON G6DN Relay mounted

### 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

- Do Not use other voltage except appointed voltage. It may be the cause of fire or damage of equipment.
- Use it within nominal voltage and current which are marked on load.  
It may be the cause of fire or damage of equipment.
- 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.
  - COMMON Polarity of controller is '+' : R32C-NT-G6DN
  - COMMON Polarity of controller is '-' : R32C-PT-G6DN
- 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.

※ 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

- 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.
- 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.
- 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.
- 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)	Coil Rated voltage	Common		Interface		Dimensions (W * Dmm)	Mounting method
				Coil	Contact	Coil	Contact		
R32C-NT-G6DN	OMRON G6DN-1A-SL 24VDC	32Point (1a*32)	24V DC	NPN (+COM)	8P Com.	Connector MIL-C-83503 40Pin	Screw Terminal 7.62Pitch 40Pole	174.0 * 70.0	DIN Rail (Channel)
R32C-PT-G6DN				PNP (-COM)					

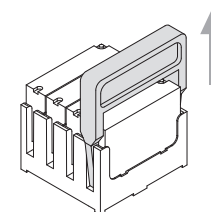
#### • G6DN Relay Specification

Item		G6DN-1A-SL 24VDC
Contact	Arrangement	SPST-NO (1a)
	Normal switching capacity (resistive load)	5A 250V AC / 5A 30V DC
	Max. switching current	5A
	Max. switching voltage	277 VAC / 125 VDC
Coil	Nominal voltage	24V DC
	Pick-up Voltage	70% max. of rated voltage
	Drop-out Voltage	5% min. of rated voltage
	Coil resistance	5,236Ω
	Nominal operating power	Approx. 110mW
Surge voltage between contact and coil		6,000V
Initial breakdown voltage between contact and coil		AC 3,000V, 50/60Hz for 1 min
Country of origin		CHINA

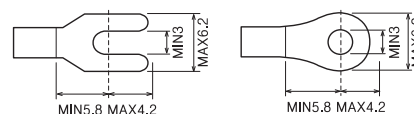
#### • Material

Case	Modified PPO
Protective cover	Polycarbonate
P.C.B	Epoxy 1.6t / 2oz
Applicable wire	AWG22~16 (MAX / 1.5mm <sup>2</sup> )
Terminal Screw	M3 X 6L
Screw torque	7~8kgf · cm (0.68~0.78 N · m)
Ambient temperature	-10°C ~ +50°C (No condensation)

#### • How to replace relay (Removal Key is embeded in product)

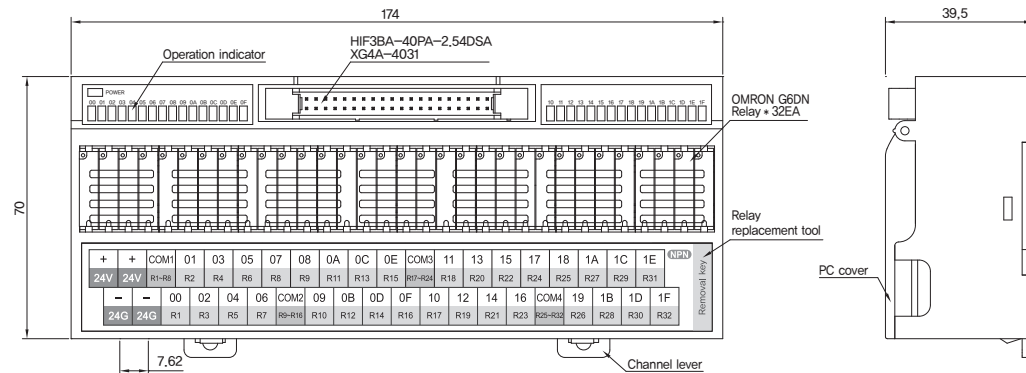


#### • Applicable crimp terminal



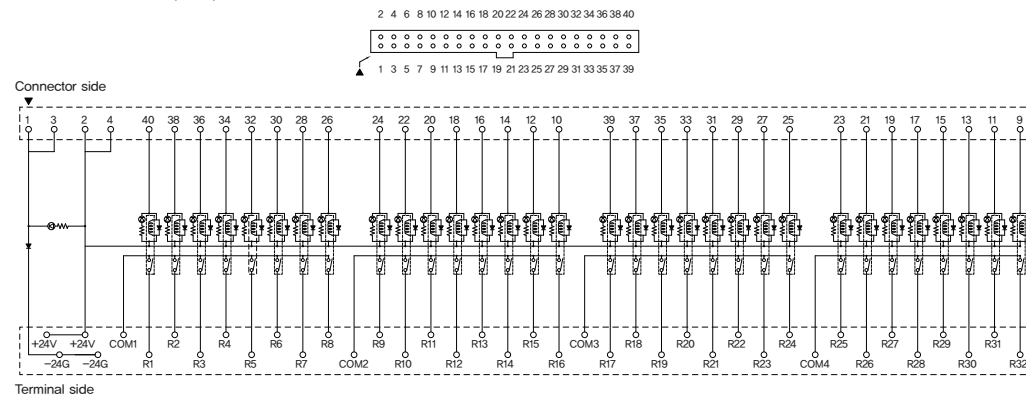
## • Dimension

- R32C-NT-G6DN (NPN) 



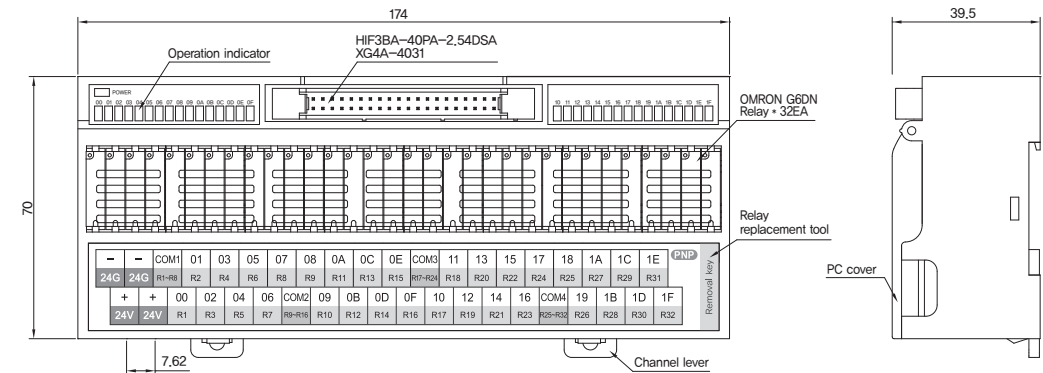
## • Wiring Diagram

- R32C-NT-G6DN (NPN) 



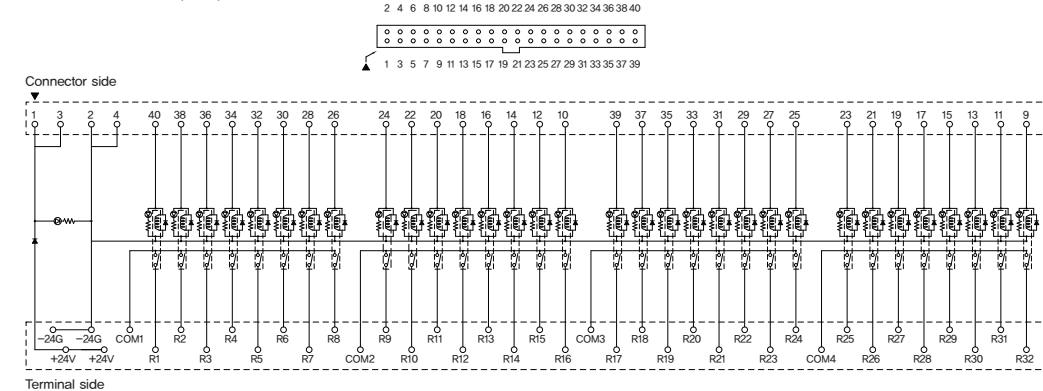
## • Dimension

- R32C-PT-G6DN (PNP) 



## • Wiring Diagram

- R32C-PT-G6DN (PNP) 



- ※ 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