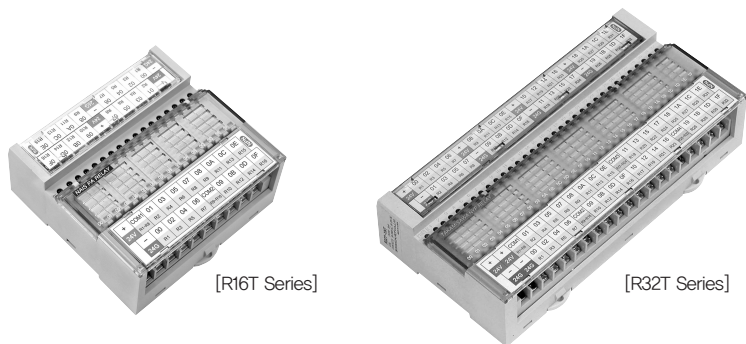


# R16T / R32T Series 16Points/32Points, with I/O Terminal Block Attached

## 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.  
1) COMMON Polarity of controller is '+' (NPN TYPE) : R16T-YNT, R16T-NS5A-20P, R32T-YNT, R32T-NS5A-40P  
2) COMMON Polarity of controller is '-' (PNP TYPE) : R16T-YPT, R16T-PS5A-20P, R32T-YPT, R32T-PS5A-40P
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.

### ⚠ Warning

1. 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.
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.  
Using other tools may be the cause of damage of relay or relay socket.

### • Model Selection

Model	Installation Relay	IO Point(s)	Coil Rate voltage	Common		Interface		Dimensions (W * Dmm)	Mounting method
				Coil	Contact	Coil	Contact		
R16T-YNT	TAKAMISAWA	16Point (1a * 16)	24V DC	NPN (+COM)	8Points Com.	Screw Terminal 7.62Pitch 20Pole	Screw Terminal 7.62Pitch 20Pole	90.6 * 88.0	DIN Rail (Channel)
R16T-YPT	NYP-24W-K			PNP (-COM)					
R16T-NS5A-20P	PANASONIC APAN3124			NPN (+COM)					
R16T-PS5A-20P				PNP (-COM)					
R32T-YNT	TAKAMISAWA	32Point (1a * 32)		NPN (+COM)	8Points Com.	Screw Terminal 7.62Pitch 40Pole	Screw Terminal 7.62Pitch 40Pole	174,0 * 88,0	
R32T-YPT	NYP-24W-K			PNP (-COM)					
R32T-NS5A-40P	PANASONIC APAN3124			NPN (+COM)					
R32T-PS5A-40P				PNP (-COM)					

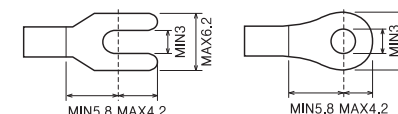
### • NYP/PA Relay Specification

Item		NYP-24W-K	APAN3124
Contact	Arrangement	1a	1 Form A (Bifurcated)
	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 (0.4A)
Coil	Nominal voltage	24V DC	24V DC
	Pick-up voltage	16.1V DC	70% max. of Rated voltage
	Drop-out voltage	2.4V DC	5% min. of Rated voltage
	Coil resistance	4,800 Ω	5,236 Ω
	Nominal operation power	120mW	110mW
Surge voltage between contact and coil		5,080V	6,000V
Initial breakdown voltage between contact and coil		3,000V AC 1min	3,000V rms for 1min
Country of origin		JAPAN	CHINA

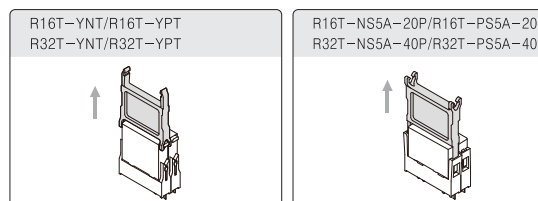
### • Material

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 * cm (0.68~0.78 N * m)
Ambient temperature	-10°C ~ +50°C (No condensation)

### • Applicable crimp terminal

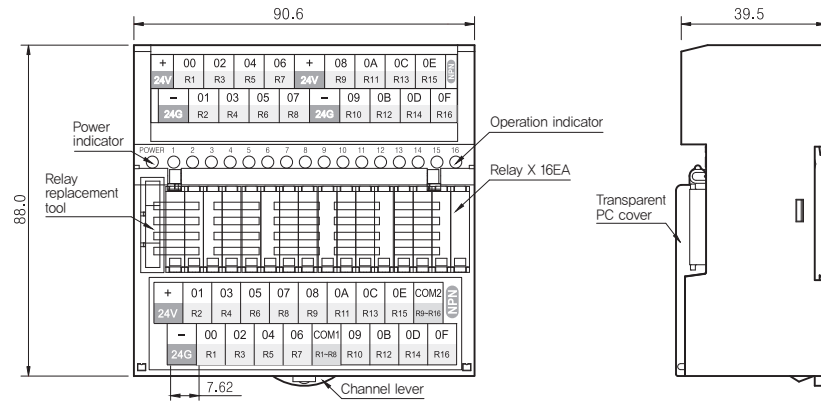


### • How to replace relay (Built-in relay replacement tool)



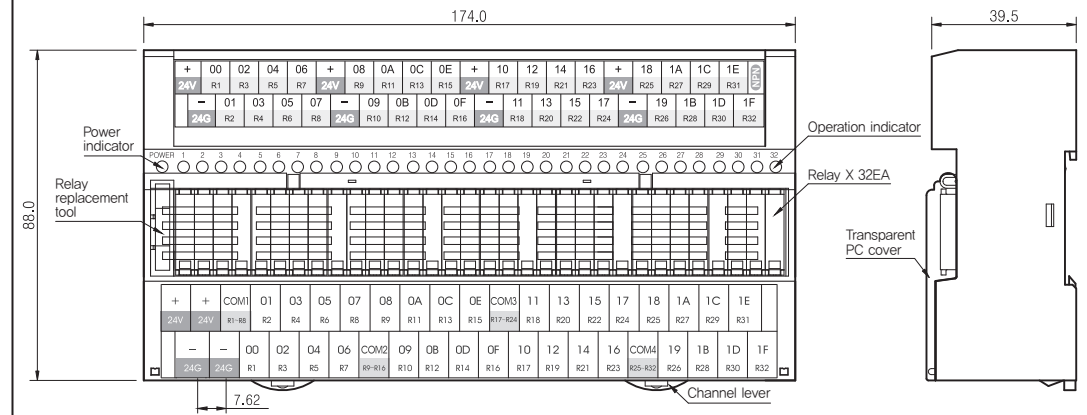
## • Dimension

### • R16T Series



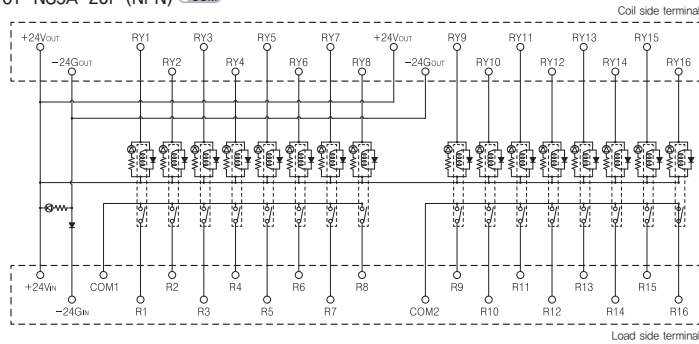
## • Dimension

### • R32T Series

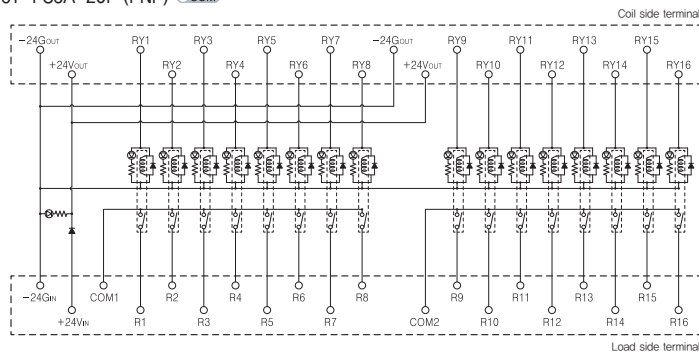


## • Wiring Diagram

### • R16T-YNT/R16T-NS5A-20P (NPN) (+COM)

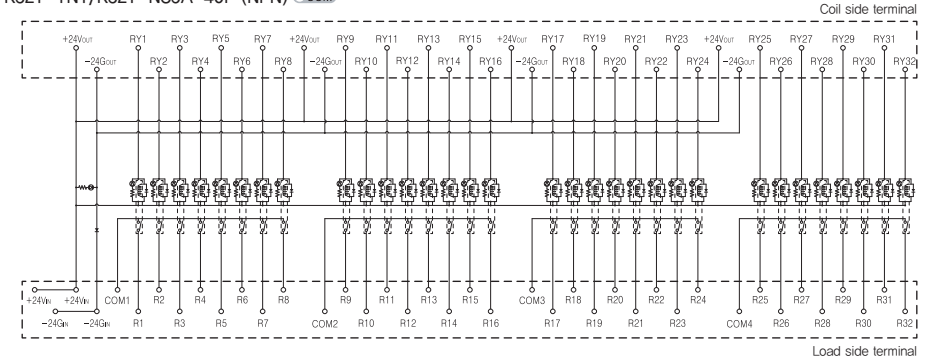


### • R16T-YPT/R16T-PS5A-20P (PNP) (-COM)

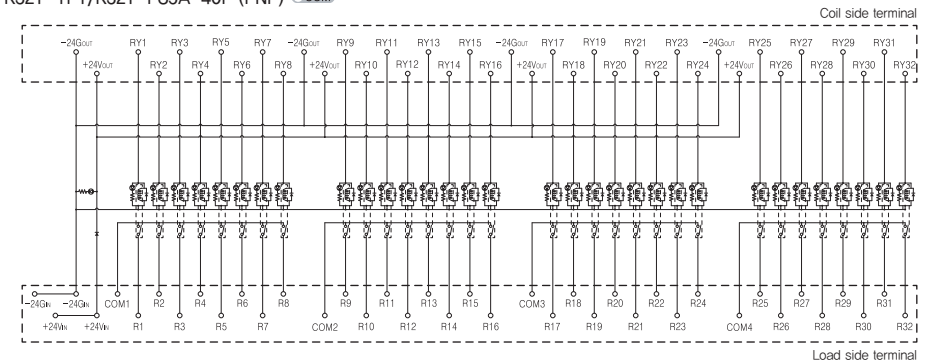


## • Wiring Diagram

### • R32T-YNT/R32T-NS5A-40P (NPN) (+COM)



### • R32T-YPT/R32T-PS5A-40P (PNP) (-COM)



※ 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.