

www.iolink.co.kr

R32C-I Series 32Points, Input Relay terminal

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

Marning 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 input card's polarity of using equipment's COMMON and controller (PLC, etc) first, and then select proper product. It may be the cause of fire or damage of this equipment and user's.
- When the polarity of equipment's Common is opposite to the PLC input card's

NPN → PNP: R32C-YN-INP PNP → NPN: R32C-YP-INN

- When used for malfunction due to leakage current of PLC input side or for insulation purpose

NPN → NPN: R32C-YN-INN PNP → PNP: R32C-YP-INP

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,

- 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 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 Relay	IO Point(s)	Coil Rate voltage	Common		Interface		Use	Dimensions	Mounting
	Model				Coil	Contact	Coil	Contact	USE	(W * Dmm)	method
	R32C-YN-INP	TAKAMISAWA NYP-24W-K		24V DC	NPN +com	PNP COM	Carraini	Commontor	Polarity conversion	- 174.0 * 70.0	DIN Rail (Channel)
	R32C-YP-INN		32Point		PNP COM	NPN +com	Screw Terminal	Terminal MIL-C- 1.62Pitch 83503			
	R32C-YN-INN		(1a * 32)		NPN + com	NPN ⊕com	7,62Pitch 40Pole		Input side insulation		
	R32C-YP-INP				PNP COM	PNP -com					

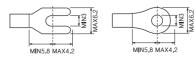
NYP Relay Specification

	ltem	NYP-24W-K		
	Arrangement	1a		
Contact	Norminal switching capacity (resistive load)	5A 250V AC / 5A 30V DC		
Contact	Max, switching current	5A		
	Max, switching voltage	270V AC / 150V DC		
	Nominal voltage	24V DC		
	Pick-up Voltage	16.1V DC		
Coil	Drop-out Voltage	2.4V DC		
	Coil resistance	4,800 Ω		
	Nominal operating power	120mW		
Surge voltag	e between contact and coil	5,080V		
Initial break	down voltage between contact and coil	3,000V AC 1min		
Country of c	rigin	JAPAN		

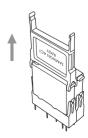
Material

Case	Modified PPO			
Protective cover	Polycarbonate			
P.C.B	Epoxy 1.6t / 2oz			
Applicable wire	AWG22~16 (MAX / 1,5mm²)			
Terminal Screw	M3 X 6L			
Screw torque	7~8Kgf·cm (0.68~0.78N·m)			
Ambient temperature	-10° C \sim +50 $^{\circ}$ C (No condensation)			

• Applicable crimp terminal



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



Connection Cable Between Major PLCs

• MITSUBISHI PLC (MELSEC Series)

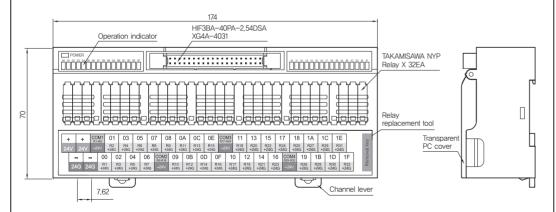
PLC	I/O CARD	PLC	Ю	Applicab	ole Model	Quantity	Cable Madel	Quantity
model	I/O CARD	COMMON	Point(s)	Polarity conversion	Input side insulation	Quantity	Cable Model	
Q	QX41	NPN	32(入)	R32C-YP-INN	R32C-YN-INN	1	C40HF-□LB-MIN1	1
Q	QX42	NPN	64(入)	R32C-YP-INN	R32C-YN-INN	2	C40HF-□LB-MIN1	2
	A1SX41	NPN	32(入)	R32C-YP-INN	R32C-YN-INN	1	C40HF-□LB-MIN1	1
A1S	A1SX42	NPN	64(出)	R32C-YP-INN	R32C-YN-INN	2	C40HF-□LB-MIN1	2
AIS	A401140	NPN	32(入)	R32C-YP-INN	R32C-YN-INN	1	C40HF-□LB-MIN1	1
	A1SH42	NPN	32(出)	R32C-TP-INN	R32C-YN-INN	'	X	Х
А	AH42	NPN NPN	32(入)	R32C-YP-INN	R32C-YN-INN	1	C40HF-□LB-MIN1	1
A	AH4Z	NPN	32(出)				Х	Х
Q	QX81	PNP	32(入)	R32C-YN-INP	R32C-YP-INP	1	C37HD-□LB-MIP1	1
A1S	A1SX81	PNP	32(入)	R32C-YN-INP	R32C-YP-INP	1	C37HD-□LB-MIP1	1

LS ELECTRIC

PLC	I/O CARD	PLC	I/O	Applicab	ole Model	Quantity	Cable Model	Quantity
model	I/O CARD	COMMON	Point(s)	Polarity conversion	Input side insulation	Quaritity		
GM4 MK-300	G4I-D24B	NPN	32(入)	R32C-YP-INN	R32C-YN-INN	1	C37HD-□LB-LIN	1
GM6 MK-200	G6I-D24B	NPN	32(入)	R32C-YP-INN	R32C-YN-INN	1	C37HD-□LB-LIN	1
VOT	XGI-D24B	NPN	32(入)	R32C-YP-INN	R32C-YN-INN	1	C40HF-□LB-XIN1	1
XGT	XGI-D28B	NPN	64(入)	R32C-YP-INN	R32C-YN-INN	2	C40HF-□LB-XIN1	2

- * Wiring diagram is for reference only, please check the power and I/O Address provided by the PLC maker before wiring.

Dimension



- * 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.

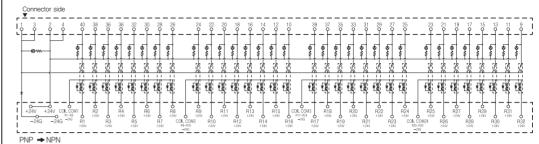


- ■HQ: 47035, 28, Daedong-ro, Sasang-gu, Busan, Korea
 - TEL: (051)320-7777 FAX: (051)312-2233
- SEOUL Office: 501, Iljik-dong, Gwangmyeong-si, Gyeonggi-do TEL: (02)837-2230 FAX: (02)837-2226

NO.201712-EP-ENG-R32C-I(rev.01)

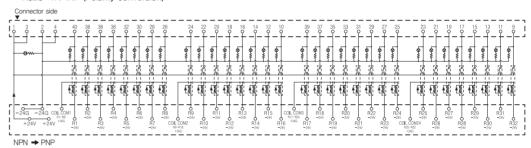
Wiring Diagram

• R32C-YP-INN (Polarity conversion)

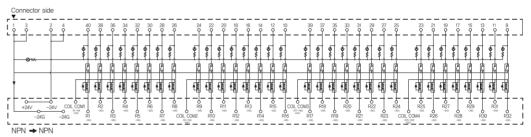


2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40

• R32C-YN-INP (Polarity conversion)



• R32C-YN-INN (Input side insulation)



• R32C-YP-INP (Input side insulation)

