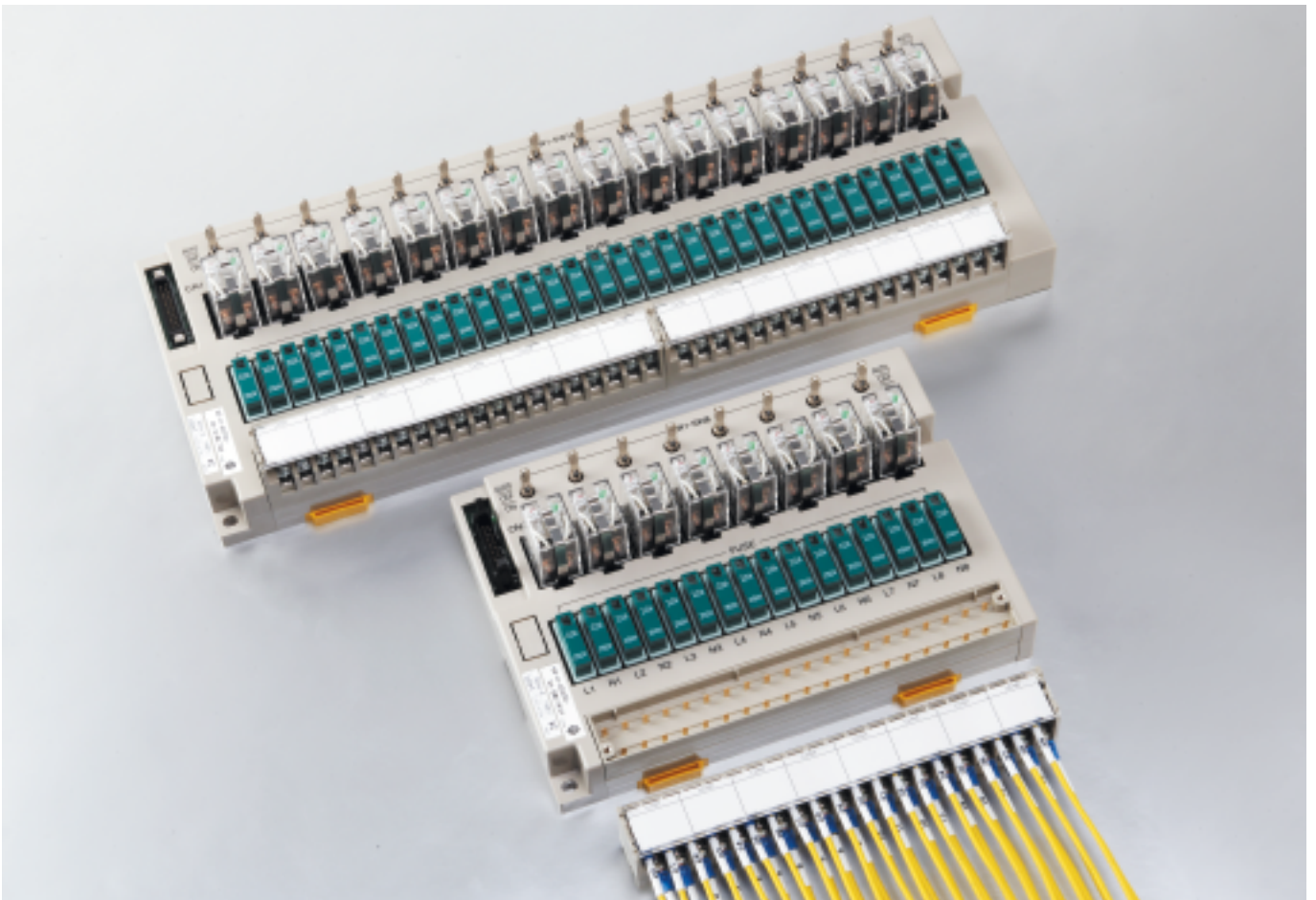




Bulb Circuit Relay Interface Unit

PXLYM

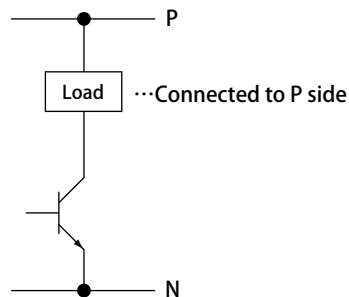
series

Standard bulb circuit and protection in one unit, allowing users to integrate a system only wiring bulbs to the unit.

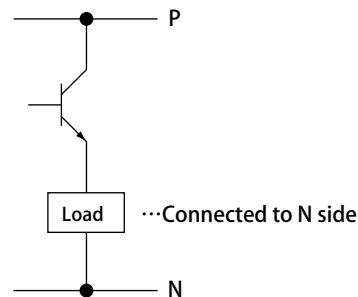
Features

- Select from 16 and 32 I/O points.
- Select from different fuses depending on purpose.
- Connect to both NPN and PNP devices.

● PNP for input and output

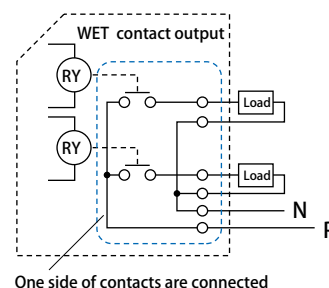


● NPN for output

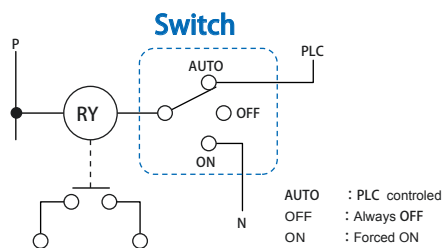


- Wet contact outputs do not require external interface terminals.

● WET circuit

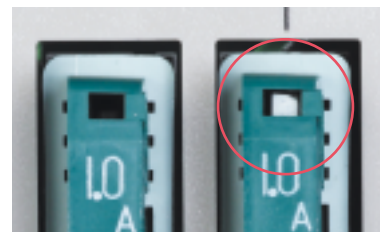
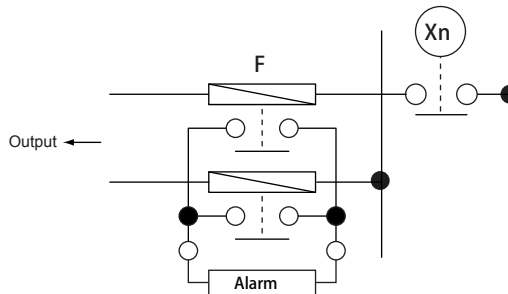


- Switches allow users to control ON/OFF directly, making it ideal for debugging, trial, testing, and maintenance of equipment.



Hold toggle switch installed

- Alarm signal indicator in case of fuse blowout.

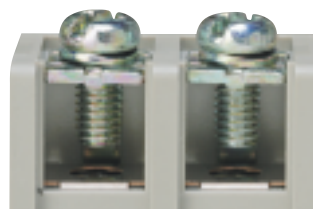


Fuse blowout indication

- 5 manufacturers of relays are available.
《Omron/Panasonic/Fuji Electric/IDEC/Tyco AMP》
- 3 types of terminal blocks are available.



Standard Terminal



Spring Lifted Terminal



Removable Spring Lifted Terminal

How To Order

PX LY M16-V 6 -D02 OP -HP1A F -CM F 2

Relay

MY : MY2 (Omron)
 LY : LY2 (Omron)
 HJ : HJ2 (Panasonic)
 HL : HL 2 (Panasonic)
 HH : HH52 (Fuji Electric)
 PT : PT2 (Tyco AMP)
 RU : RU2S (IDEC)

I/O Qty.

8 : 8 points
 16 : 16 points

I/O Type

I-W : for input
 I-CW : for input
 OP : PNP output
 ON : NPN output

Power Specification

D02 : 24VDC
 D04 : 48VDC
 D11 : 100VDC/110V
 A11 : 100VAC/110V
 A22 : 200VAC/220V

Coating Specification

Blank : Paint once
 2 : Paint twice

F : Only parts side
 R : Back (Soldered side)
 W : Both side

Blank : No PCB Coating
CM : PCB Coating

Option

F : F0 Fuse installed (MP Fuse1A)
 Blank : No Fuse

Maximum Current Selection

P / N	HP032	HP05	HP10	HP16	HP20	HP32
Maximum Current	0.32A	0.5A	1A	1.6A	2A	3.2A

Connector P/N

※Please select (V6) when using our standard cable.

Connector P / N	Manufacturer	Connector P / N 8 • 16 points
1		
2	Omron	XG4A-2031
3	JAE	PS-20PE-D4T1-LP1
4	Hirose Connectors	HIF3BA-20PA-254DSA
5		
6	Fujitsu	FCN364P024-AU (24P) *1
9		
10	Yamaichi Electronics	FAP-2001-1204-OBS
11	KEL	6201-020-256
12	Daiichi Denshi Kogyo	FRC5-C20S53T-OL
13	JST	RX-H201TD-1190
14	3M	3428-6002LCSC

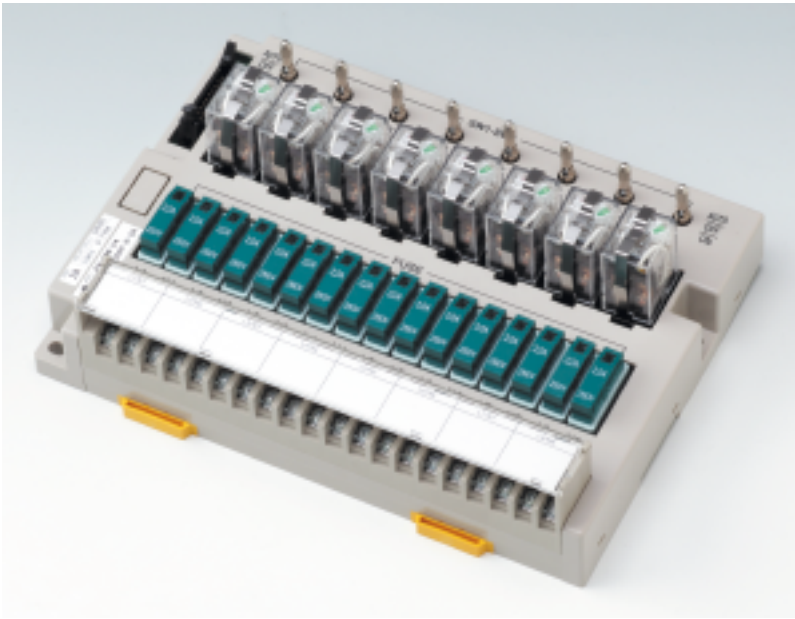
*1) 24 pin connector

Specification

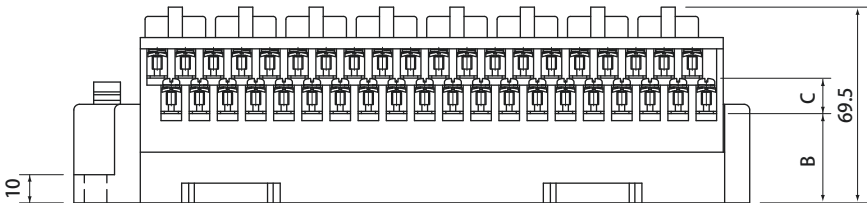
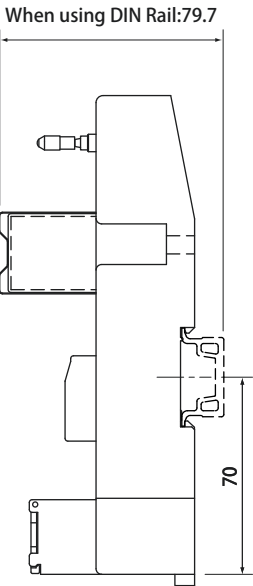
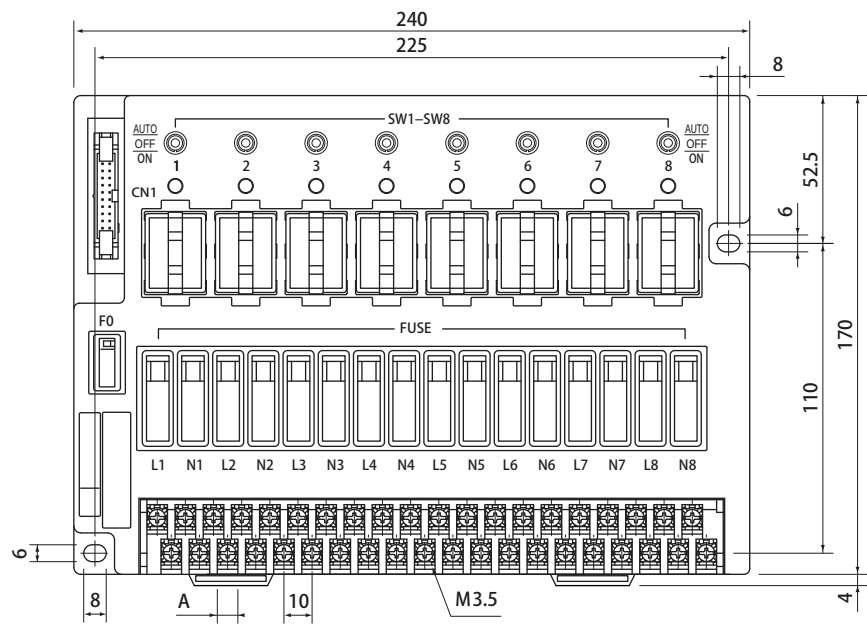
Rating*1)	For input	Relay coil side (Terminal blockside)		DC24V, 48V, 100(110)V
				AC100 (110)V, 200(220) V
		Contact side (connector side)		DC24V, 0.1A
	For output	Relay coil side (connector side)		DC24V
		Contact side (terminal blockside)		Resistance load :AC250V-3A／DC30V- 3A Inductive load : AC250V-2A／DC30V-2A
		Common line (WET Circuit/ foroutput)	Current	MAX10A
		Common points	8 points / 1 common	
Insulation Resistance				DC500V Megger more than 1000MΩ (*Between terminals and ground)
Withstand Voltage				AC2000V (50/60Hz) 1min (*Between terminals and ground)
Lightening Impulse				1.2/50μs, 4000V (*Between terminals and ground)
Vibration Resistant				Frequency :10～55Hz, Double amplitude :1.5mm
Shock Resistant				491m/s ² More than 50G (*Exept relay)
Recommended Wire				Maximum 2mm ²
Recommended Crimp Terminal				R2-3.5
Tightening Torque				0.8～1.2N・m (When using crimp terminal)
Surrounding Air Temperature				－20～＋55℃ -4 ～ 131F *Operating
Storage Temperature				－25～＋70℃ -13 ～ 158F
Relative Humidity				45～85%R.H.
Installed Relay				MY2, LY2 (Omron)
				HH52 (Fuji Electric)
				RU2S (IDEC)
				HJ2,HI2 (Panasonic)
				PT2 (Tyco AMP)

*1) Rating is not same as relay specifications.

Power Consumption	P / N	Relay P / N	For 8 points	For 16 points
	MY	MY2N-D2	7.0W	14.0W
	LY	LY2N-D2	7.1W	14.2W
	HJ	HJ2-L-DC24V-D	7.1W	14.2W
	HL	HL2-L-DC24V	7.1W	14.2W
	HH	HH52P-LUL	7.1W	14.2W
	PT	PT280024 ※No LED	6W	12W
	RU	RU2S-CD-D24	8.6W	17.2W

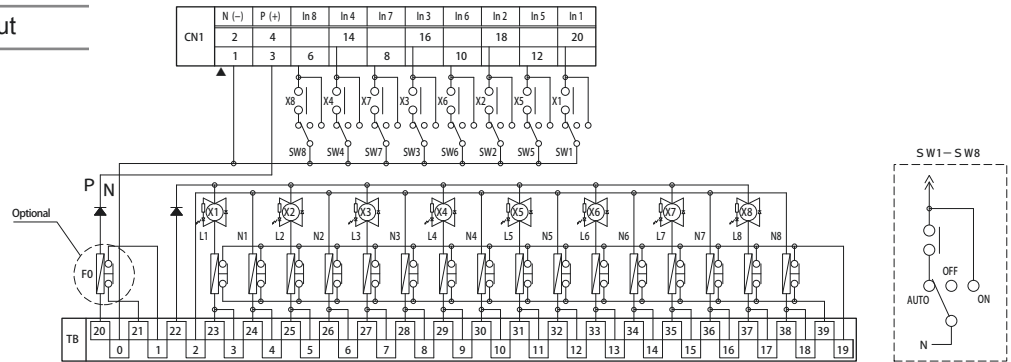


Diagram

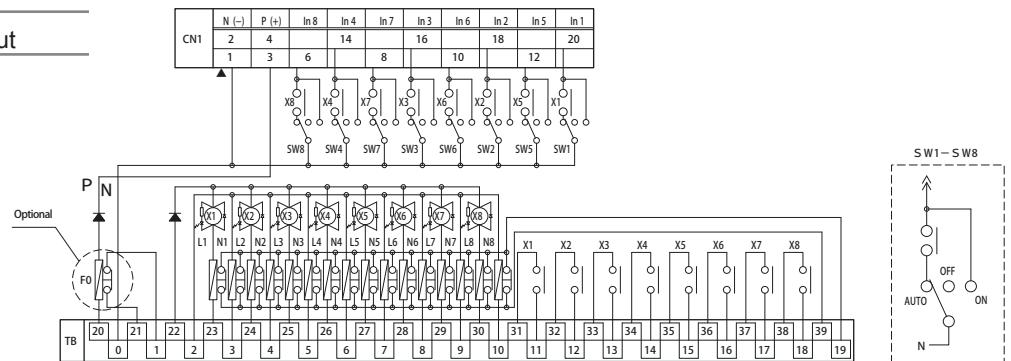


	A	B	C
PSLYM8	8.2	24.9	11.5
PXLYM8	7.3	30.4	12.6
HTXLYM8	7	43.3	12.5

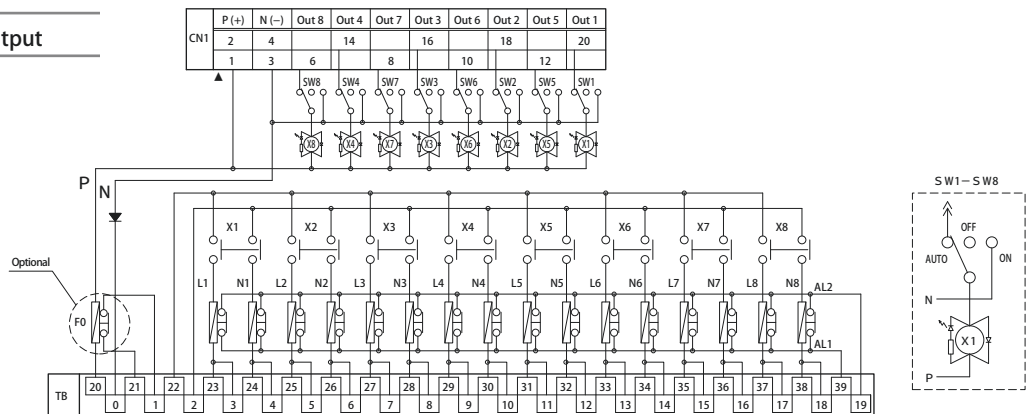
I-W Input



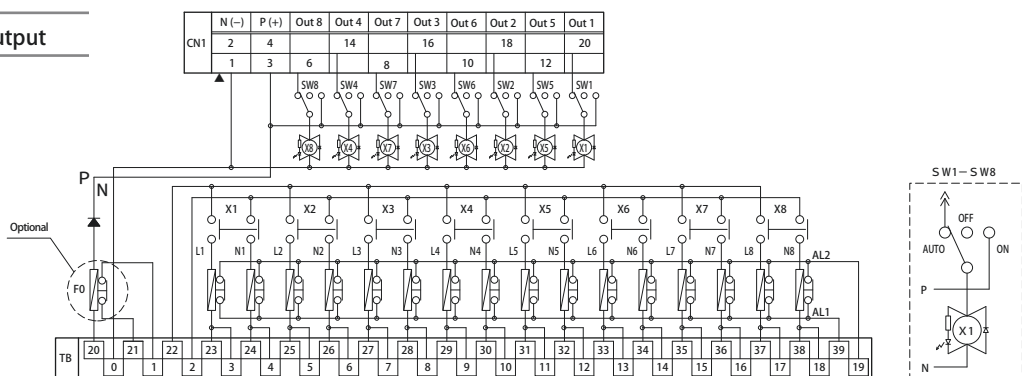
I-CW Input

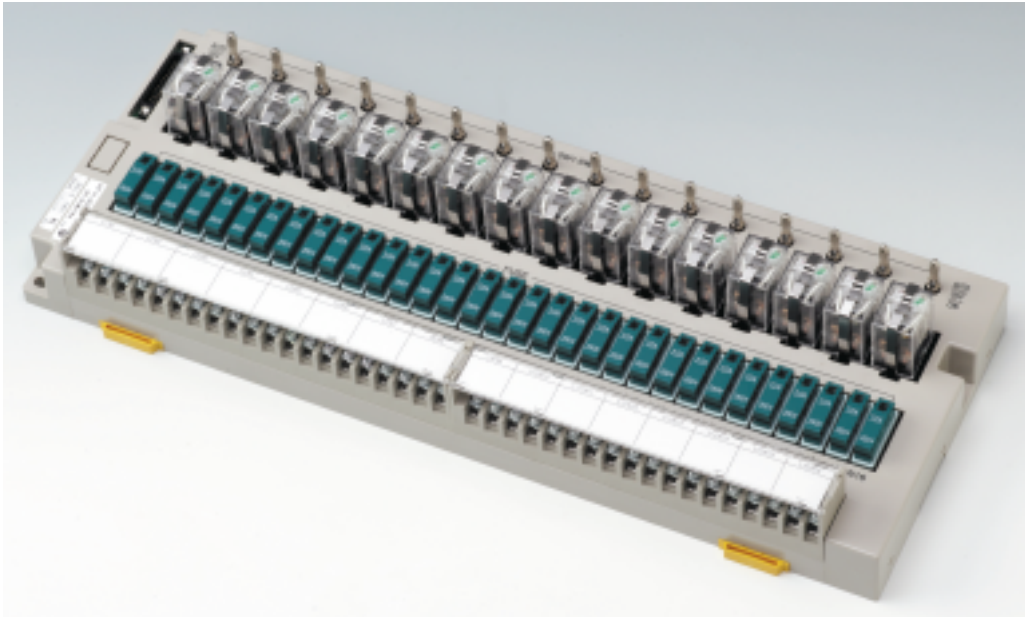


OP PNP Output

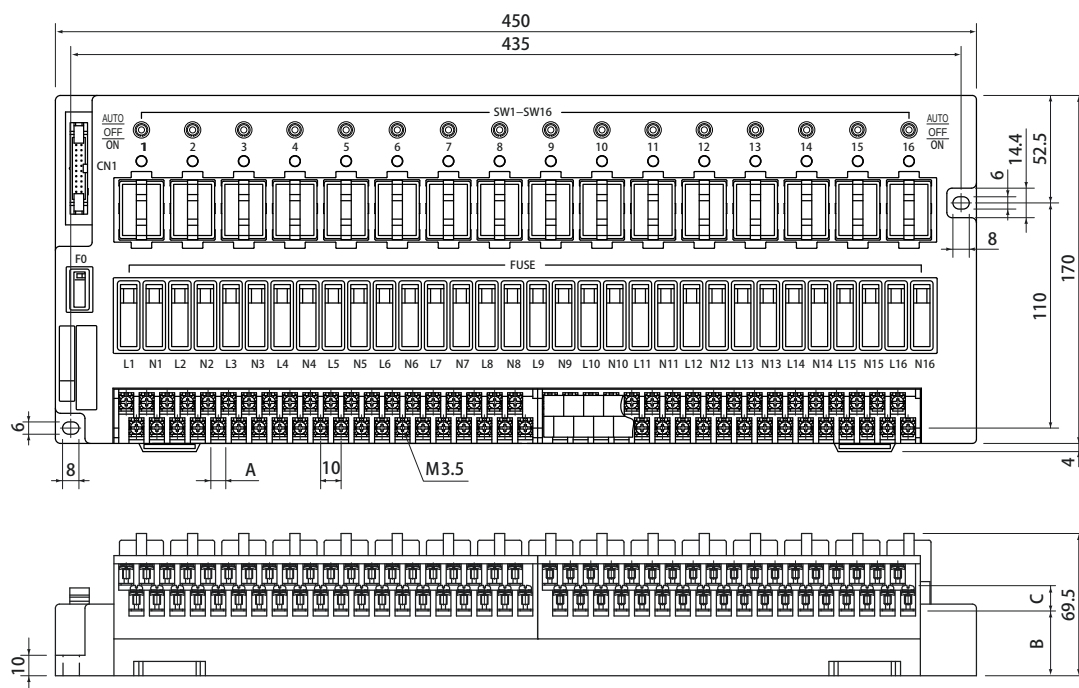


ON NPN Output

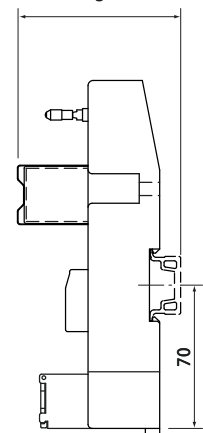




Diagram

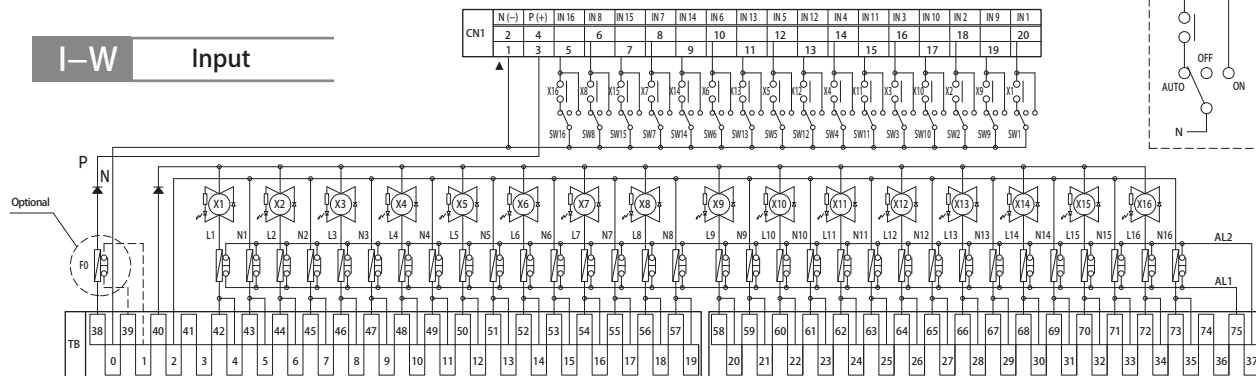


When using DIN Rail:79.7

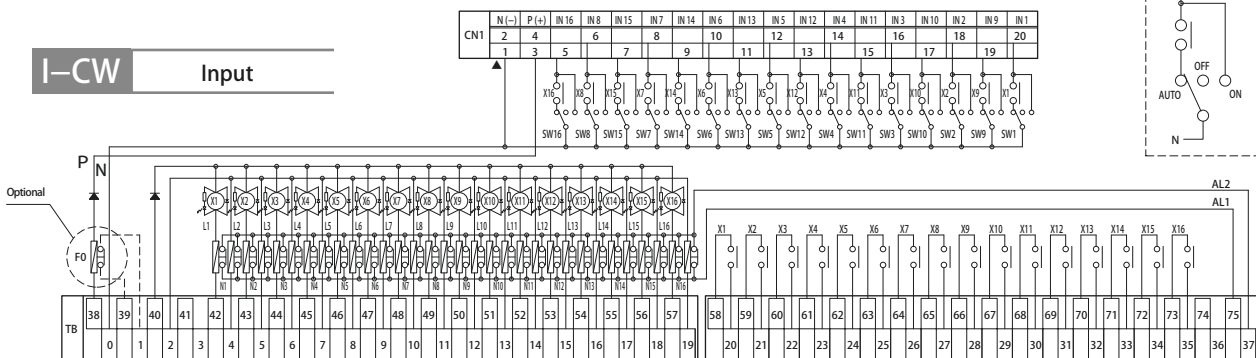


	A	B	C
PSLYM16	8.2	24.9	11.5
PXLYM16	7.3	30.4	12.6
HTXLYM16	7	43.3	12.5

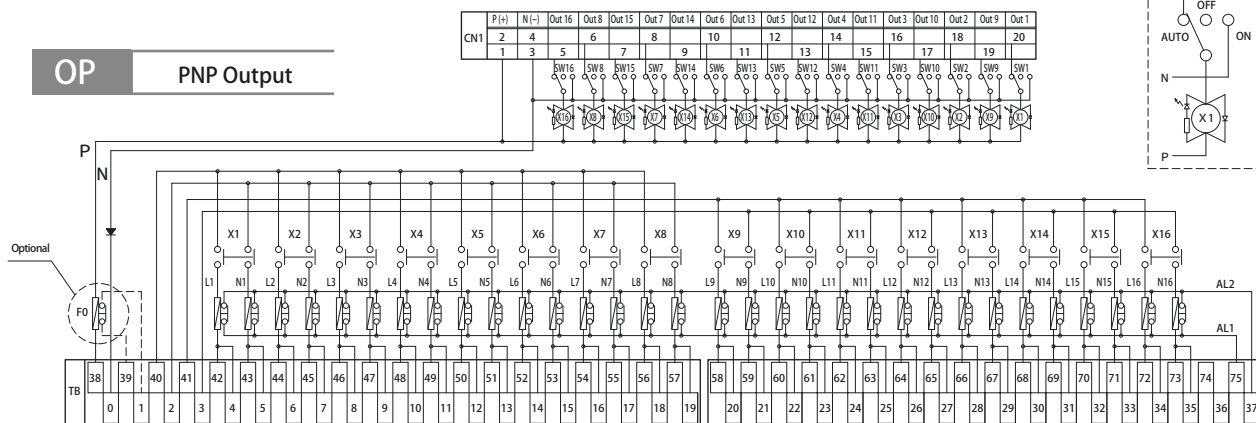
I-W Input



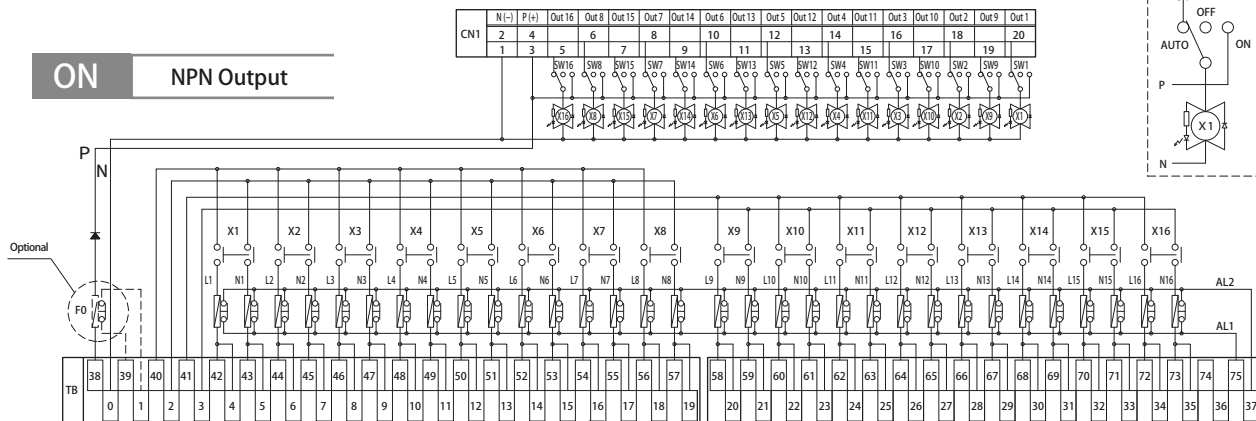
I-CW Input



OP PNP Output



ON NPN Output



Precaution

DIN rail mounting

- Please use EK–ch for DIN rail mounting Other DIN rail may not fit to this product.

Replacing Relay

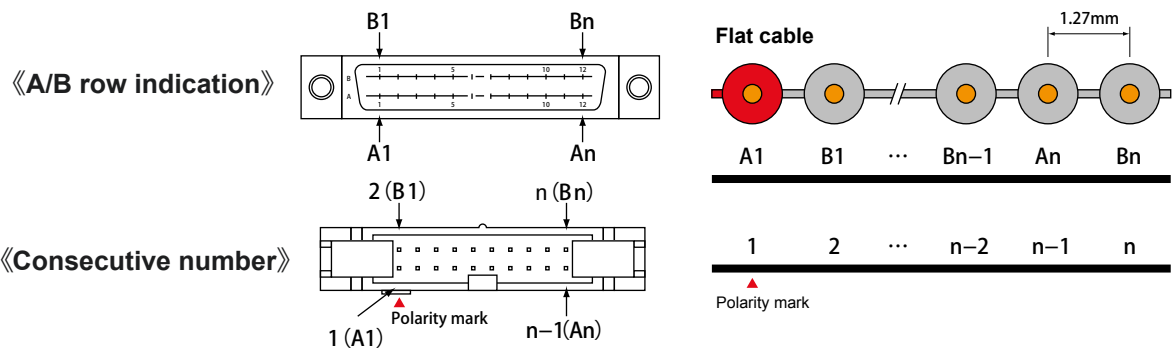
- Do not remove or insert relay while power is on. It may cause a failure and electric shock.

Wiring

- Be careful of wiring voltage and polarity of power or signal wires. A wrong wiring may cause failure.
- Do not remove or insert connector while power is on. It may cause a failure and electric shock.
- Verify the connector is fixed certainly.

Connector Pin Assignment

- Be careful for connector pin assignment indication.



Recommended Tightening Torque

- 0.8~1.2N/m *When wiring without crimp terminal, Recommended tightening torque is 0.5N /m)

Fuse Rating

- Verify the fuse blow-out specification below to perform the appropriate protection coordination.

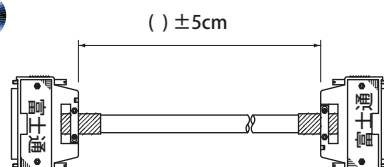
(Normal Blow)	
Current capacity	Fusing Spec
110%	135% Within 1 hour 200% Within 2 mins

MP (Fast Blow)	
Current capacity	Fusing Spec
110%	135% Within 6 mins 200% With in 0.5 min

Cable Assembling

● PLC Pre-wired Cable

Cable for 32 points I/O



() : Each additional cable order will be 10 cm

ex): 1 = 10 cm

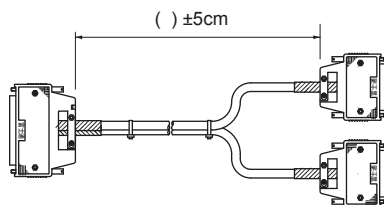
2 = 20 cm

10 = 100 cm

Interface Unit	I/O	Cable P / N	PLC maker	PLC P / N			
PX7FR32-V6 PS7FR32-V6	Input	32MI-AI-H0001-()	Mitsubishi	QX41	QX42	QX71	QX72
				A1SX41	A1SX42	AX42	
	PNP Output	32MI-AOP-H0002-()		QY41P	QY42P		
				A1SY41	A1SY42	A1SY42P	AY42
	NPN Output	32MI-AON-H0003-()	QY81P	A1SY81			
	Input	32TO-AI-H0036-()	Toshiba	DI235	DI335	DI335H	
				DI634	DI635		
	PNP Output	32TO-AOP-H0037-()	DO235	DO335	DO634	DO635	
	Input	32YO-AI-H0017-()	Omron	CJ1W-ID231/ ID261	CS1W-ID231/ID261		
				C200H-ID216/ID218	C200H-ID217/ID219		
			Yokogawa	F3XD32-3F/4F/5F	F3XD32-3N/4N/5N		
				F3X XD64-3F/4F	F3XD64-3N/4N		
	PNP Output	32YO-AOP-H0018-()	Omron	CJ1W-OD231/OD261	CS1W-OD231/OD261		
				C200H-OD218/OD219			
			Yokogawa	F3YD32-1A	F3YD64-1A		
				F3YD64-1F			
NPN Output	32OM-AON-H0006-()	Omron	CJ1W-OD232 / OD262				
	32OM-AON-H0052-()		CS1W-OD232 / OD262		C200H-OD21B		
		32YO-AON-H0019-()	Yokogawa	F3YD32-1B			
Input	32KQ-C-H0027-()	Keyence	KV-C32XA/C64XA/C64XB				
PNP Output			KV-C32TA/C64TA				
NPN Outout			KV-C32TAP/C64TAP				

We offer customized cable assembling.

● Cable for 16 points I/O



() : Each additional cable order will be 10 cm

ex): 1 = 10 cm

2 = 20 cm

10 = 100 cm

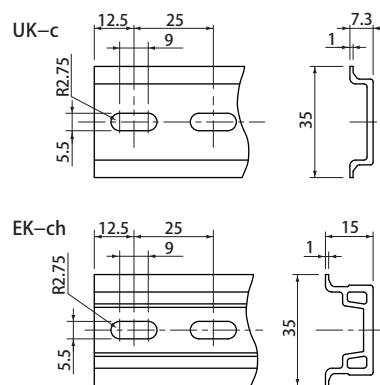
Interface Unit	I/O	Cable P / N	PLC Maker	PLC P/ N			
PX7FR16-V6 PS7FR16-V6	Input	16MI-AI-H0007-()	Mitsubishi	QX41	QX42	QX71	QX72
				A1SX41	A1SX42	AX42	
	PNP Output	16MI-AOP-H0008-()		QY41P	QY42P		
				A1SY41	A1SY42	A1SY42P	AY42
	NPN Output	16MI-AON-H0009-()		QY81P	A1SY81		
				DI235	DI335	DI335H	
	Input	16TO-AI-H0015-()	Toshiba	DI634	DI635		
				DO235	DO335	DO634	DO635
	PNP Output	16TO-AOP-H0016-()	Omron	CJ1W-ID231/ ID261	CS1W-ID231/ID261		
				C200H-ID216/ID218	C200H-ID217/ID219		
	Input	16YO-AI-H0020-()	Yokogawa	F3XD32-3F/4F/5F	F3XD32-3N/4N/5N		
				F3X XD64-3F/4F	F3XD64-3N/4N		
	PNP Output	16YO-AOP-H0021-	Omron	CJ1W-OD231/OD261		CS1W-OD231/OD261	
				C200H-OD218/OD219			
			Yokogawa	F3YD32-1A F3YD64-1A			
				F3YD64-1F			
NPN Output	16OM-AON-H0012-()	Omron	CJ1W-OD232 / OD262				
	16OM-AON-H0053-()		CS1W-OD232 / OD262		C200H-OD21B		
	16YO-AON-H0022-()	Yokogawa	F3YD32-1B				
Input	16KQ-C-H0038-()	Keyence	KV-C32XA/C64XA/C64XB				
PNP Output			KV-C32TA/C64TA				
NPN Output			KV-C32TAP/C64TAP				

A large variety of conversion cables are available. Example: Breakout cable (The other side are crimp terminals or 4 connectors for 8 point common). We also offer connector branching units. *PSC Series is used for PLC connection.

Accessories

	P / N	Rail	Length (mm)	Packaging
Rail	UK-c	—	1000,1500, 2000	10
	EK-ch	—	1000,1500, 2000	10
End bracket	EK-b	UK-c,EK-ch	—	100
	UK-b	UK-c,EK-ch	—	100
Rail end cap	UK-ec	UK-c	—	50
	EK-ec	EK-ch	—	50

	P / N	Note
Short bar	PXG-2YC	For terminal block between A • B (For 32 points unit)
	P10-() SLC	() Terminal pole numbers



Safety Precautions

- Please use appropriate current and voltage according to the manual.
- Please do not apply abnormal shock or vibration. It may cause a malfunction or failure.
- Please do not touch terminal block part and close the terminal cover while the power is alive.
- Never use a relay for a load that exceeds the contact ratings of the relay, such as the switching capacity. Doing so may result in reducing relay performance for insulation failure, contact welding, and contact faults, and might even result in burning or other damage to the relay itself.
- Relay durability is greatly affected by the switching conditions. Always test the relay under actual application conditions to confirm applicability and use the relay only for the number of switching operations that will not affect performance.
- Our products were not designed or manufactured for use in devices or systems directly related to human life. Users who intend to use the product described in this manual for special purposes must contact Toho Technology Inc, beforehand.
- If this product is to be involved a life and death situation or in a facility where failure may cause a serious accident, safety devices must be installed to minimize the likelihood of any accident.

★The products and specifications described in this manual or the content and presentation of the manual may be changed without notice to improve the product and/or the manual.



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