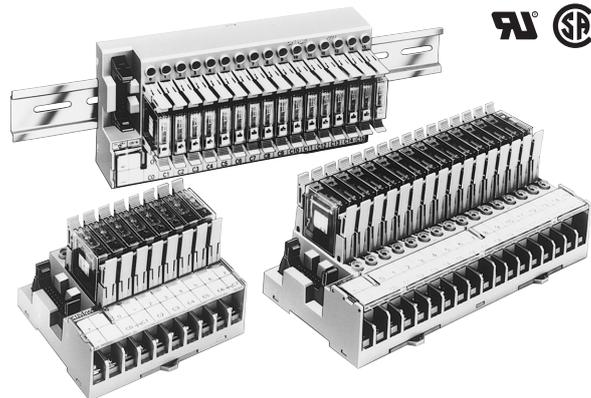


I/O Relay Terminal G7TC

Single Cable Connection to PLC Means Space is Saved and Less Control Panel Wiring is Required.

- Compact size: 182 (W) × 85 (D) × 68 (H) mm (8-point Output Block width is 102 mm).
- Connects to the PLC through the connector, and requires only a snap-in operation.
- Surge suppressor circuit built-in.
- Immediate recognition of I/O signal status using LED operation indicators.
- Mounts easily on a DIN track.
- G3TA I/O Solid-state relay can be mounted instead of G7T.
- Approved by UL, CSA (except for G7TC-OC16-1).



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

I/O Relay Terminal When your order, specify the rated voltage.

I/O classification	I/O points	Internal I/O common	Rated voltage	Model
Input	16	NPN (- common)	12 VDC	G7TC-ID16
			24 VDC	
			100 (110) VDC	G7TC-IA16
			100/(110) VAC 200/(220) VAC	
Output	16	NPN (+ common)	12 VDC	G7TC-OC16
			24 VDC	
		PNP (- common)	12 VDC	G7TC-OC16-1 *
			24 VDC	
	8	NPN (+ common)	12 VDC	G7TC-OC08
			24 VDC	

Note: 1. When ordering, add the rated coil voltage to the model number.
Example: G7TC-ID16 24 VDC

Rated coil voltage

2. When the G7TC is used with an AC rated voltage, three rated currents can be used. If a coil voltage of 110 or 220 VAC is used, 50 Hz cannot be used.

* Not approved by UL, CSA.

Accessories (Order Separately)

Cable for I/O Relay Terminals XW2Z-R

- Cable with Loose Wire and Crimp Terminals: XW2Z-RY□□C
XW2Z-RA□□C
- Cable with Loose Wires
- Cable with connectors
 - Fujitsu connectors (1:1): XW2Z-R□□C
 - (1:2): XW2Z-RI□□C-□
XW2Z-RO□□C-□
 - (1:3): XW2Z-R□□C-□-□
 - MIL connectors (1:1): XW2Z-RI□□C
XW2Z-RO□□C
 - (1:2): XW2Z-RI□□-□-D□
XW2Z-RM□□-□-D□
XW2Z-RO□□-□-D1

Refer to *Connecting Cables* on page 14 for details.

Short Bar

Model
G78-04

Output Short-Circuit Module

Model
G77-S

Socket

Model
P7TF-05

Mounted Relays and I/O Terminal Sockets

Mounted Relays (G7T I/O Relays and G3TA I/O SSRs)
I/O Terminal Sockets (P7TF-IS16/OS16/OS08)
Refer to *Safety Precautions* on page 13 for details.

Indicator Module (With Surge Suppressing Function)

	Model	Applicable relay coil voltage	Remarks
For AC relay	P70A	100 (110) V AC	Varistor surge suppression
		200 (220) V AC	
For DC relay	P70D	12/24 V DC	Diode surge suppression

Note: 1. Order the indicator module suitable for the relay coil voltage.
 2. The indicator module for DC relays can be used with a 12-V or 24 V DC power supply.

Accessories for DIN Track Mounting

Appearance	Name	Model	Minimum order (quantity)
	DIN Tracks	1 m	1
		0.5 m	
	End Plate	PFP-M *	10
	Spacer	PFP-S *	

* Please order in sets of 10 units.

Model Number Legend

A G7TC I/O Relay Terminal is a combination of (8 or 16) G7T I/O Relays with SPST-NO specifications and a P7TF I/O Terminal Socket.

G7TC-
 1 2 3 4

1. Input/Output Classification

- I: For input
- O: For output

2. Type of I/O Signal

- A: AC coil type for input relays mounted (Input/Output Classification: I)
- D: DC coil type for input relays mounted (Input/Output Classification: I)
- C: Contact output for output relays mounted (Input/Output Classification: O)

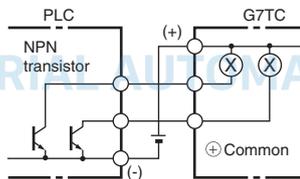
3. Number of I/O Points

- 16: 16 points
- 08: 8 points (for output only)

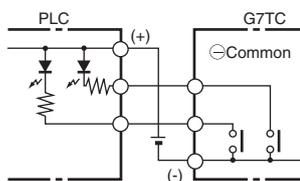
4. Internal I/O Common

Blank: NPN

Output

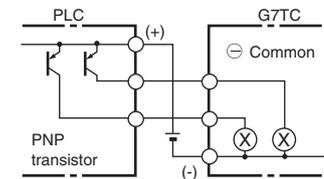


Input



1: PNP

Output



Specifications

Coil Ratings (Common to Input/Output per Relay)

Rated voltage (V)	Item	Rated current (mA)		Coil resistance (Ω)	Must operate	Must release	Maximum voltage	Power consumption	
		50 Hz	60 Hz					of rated voltage	
AC	100/(110)	8.2/-	7/7.7	8,700	80% max.	30% min.	105%	0.7 VA	11 VA
	200/(220)	4.1/-	3.5/3.85	33,300					
DC	12	42		290	80% max.	10% min.	105%	0.5 W	8 W
	24	21		1,150					
	100/110	5		20,000					

- Note:**
1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of 15%/-20% for AC rated current and ±15% for coil resistance.
 2. The operating characteristics are measured at a coil temperature of 23°C.
 3. The value for maximum voltage is the maximum value within the allowable voltage fluctuation range for the relay coil's operating power supply. Continuous operation at this voltage is not within product specifications.
 4. Approx. 4 mA flows into each LED indicator. To calculate the power supply capacity, add the current value of each LED indicator.
 5. When the G7TC is used with an AC rated voltage, three rated currents can be used. If a coil voltage of 110 or 220 VAC is used, 50 Hz cannot be used.

Contact Ratings (G7T I/O Relay)

Classification	For input		For output	
	Resistive load (cosφ=1)	Inductive load (cosφ=0.4 L/R=7 ms)	Resistive load (cosφ=1)	Inductive load (cosφ=0.4 L/R=7 ms)
Rated load	1 A at 24 VDC	0.5 A at 24 VDC	2 A at 220 VAC 5 A at 24 VDC	1 A at 220 VAC 2 A at 24 VDC
Rated carry current	1 A		5 A	
Max. switching voltage	250 VAC, 125 VDC			
Max. switching current	1 A	0.5 A	5 A	2 A
Error rate (reference value) *	100 μA at 1 V		10 mA at 5 V	
Electrical endurance	10,000,000 operations (at 10 mA) 50,000 operations (at 1 A)	2,500,000 operations (at 10 mA) 20,000 operations (at 1 A)	1,000,000 operations (under rated load)	
Mechanical endurance	50,000,000 operations			

* The above values are for a switching frequency of 120 operations/min.

INDUSTRIAL AUTOMATION

Characteristics

Item	Model	G7TC-IA16 (Input, AC coil)	G7TC-ID16 (Input, DC coil)	G7TC-OC16 (-1) (output, DC coil)	G7TC-OC08 (output, DC coil)
Contact form		SPST-NO × 16			SPST-NO × 8
Contact mechanism		Bifurcated crossbar contact		Single contact	
Contact material		Au cladding + Ag		AgInSn	
Contact resistance #1		50 mΩ max.			
Must Operate time #2		15 ms max.			
Release time #2		15 ms max.			
Max. switching frequency	Mechanical limit	18,000 operations/h			
	At rated load	1,800 operations/h			
Insulation resistance		100 MΩ (at 500 VDC)			
Dielectric strength	Between coil and contact	2,000 VAC, 50/60 Hz for 1 minute			
	Between same polarity contacts	1,000 VAC, 50/60 Hz for 1 minute			
	Between paired connectors #3	250 VAC, 50/60 Hz for 1 minute			
Vibration resistance		10 to 55 to 10 Hz with 0.5-mm single amplitude (1.0-mm double amplitude)			
Shock resistance		200 m/s ²			
Noise immunity		Noise level: 1.5 kV; pulse width: 100 ns to 1 μs			
Rated voltage between positive and negative terminal blocks		Rated voltage of controller's (PLC or other) input circuit		12 VDC ±5%	24 VDC ±5%
Rated current between positive and negative terminal blocks		Input circuit current of controller (PLC or other) × number of ON points		12 VDC: 46 mA × number of ON points	24 VDC: 25 mA × number of ON points
Cable length #4	To controller	5 m max. (reference value)			
	To I/O devices	50 m max. (reference value, for 2-mm ² CVV cable)		Dependent on load	
Ambient operating temperature		0 to 55°C			
Ambient operating humidity		35% to 85% (with no icing or condensation)			
Tightening torque for external connections		0.78 to 1.18 N·m			
Tensile strength		No damage when a tensile force of 49 N is applied in each direction. In the direction of the track, the tensile strength is 9.8 N min.			
I/O terminal tightening torque		Tightening strength: 0.98 N·m; Tensile strength 49 N per minute			
LED color		Red	Green		
Case color		Transparent red	Transparent green	Transparent green	
Coil surge absorber		Varistor	Diode (1 A, 1,000 V)		
Weight		Approx. 640 g	Approx. 630 g	Approx. 670 g	Approx. 350 g

Note: The above values are initial values.

*1. Measurement: 1 A at 5 VDC.

*2. Ambient temperature: 23°C.

*3. This is between connector pin No. 10 and 20, and between connector pin No. 9 and 19.

*4. Connecting cables up to 5 m are available as standard products. For longer cables, enquire separately.

Approved Standards

- The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.
- Standard G7TC I/O Relay Terminal, except for the G7TC-OC16-1 and the G7TC-OC08, have met UL and CSA standards (UL file no. E95399; CSA file no. LR35535).

UL standard certification (File No. E95399)

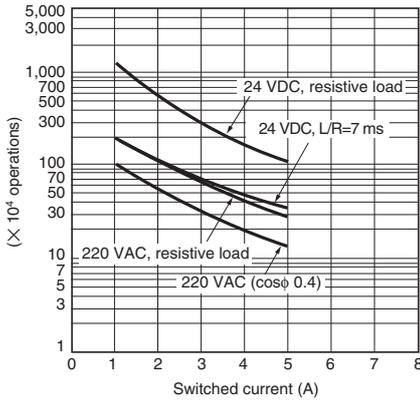
Model	Standard number	Category	Listed/Recognized	Contact ratings
G7TC-ID16 G7TC-IA16	UL508	NRAQ2	Recognized	Terminal block side: 250 VAC max./point Connector side: 10 mA/point, 24 VDC
G7TC-OC16	UL508	NRAQ2	Recognized	Terminal block side: Inductive load: 10 A, 250 VAC Resistive load: 10 A, 30 VDC Rated horsepower: 1/2 HP, 240 VAC

CSA Standard (File No. LR35535)

Model	Standard number	Class number	Contact ratings
G7TC-ID16	CSA C22.2 No.14	3211 04	6 to 240 VAC 6 to 125 VDC
G7TC-IA16			
G7TC-OC16			

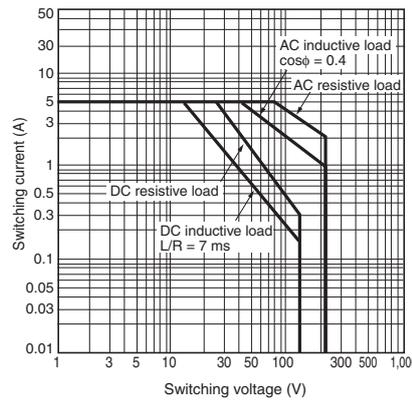
Engineering Data (Reference Value)

Life Expectancy of Output

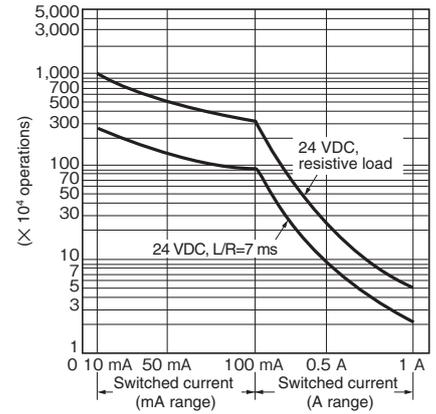


Max. Switching capacity of Output

(Life expectancy: 1,000,000 operations)



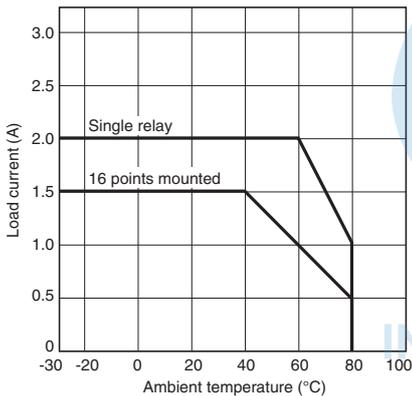
Life Expectancy of Input



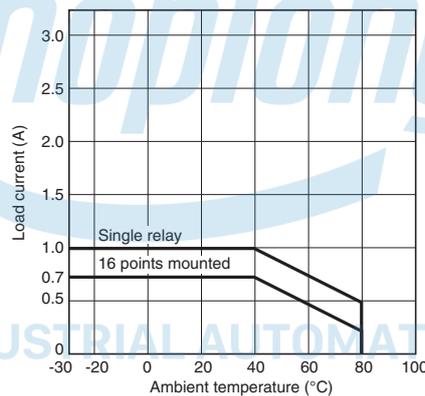
- Note:**
- These data are actual measured values that were sampled from the production line and prepared in graph format, and are for reference purposes only. A relay is manufactured by mass production, and as a basic rule must be used with allowance made for a certain amount of deviation.
 - The data shown above are values for a single relay.

Load Current vs. Ambient Temperature

G3TA-OA202SZ-US
G3TA-OA202SL-US
G3TA-ODX02S-US



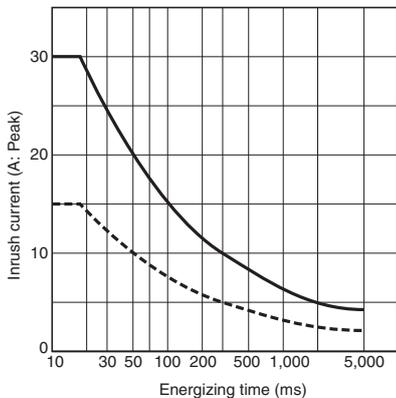
G3TA-OA201S-US



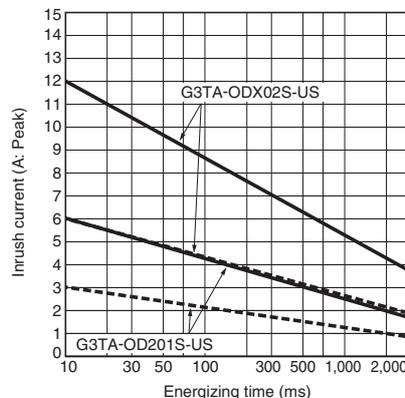
Inrush Current

The following graphs show the maximum inrush currents that can be withstood for non-repetitive operation. For repetitive operation, the figures should be reduced by half.

G3TA-OA202SZ-US
G3TA-OA202SL-US

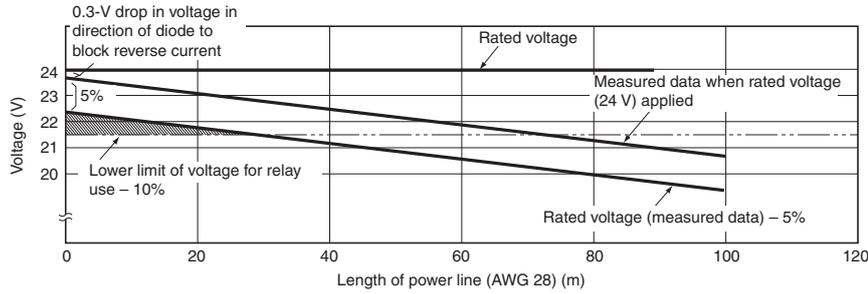


G3TA-ODX02S-US
G3TA-OD201S-US



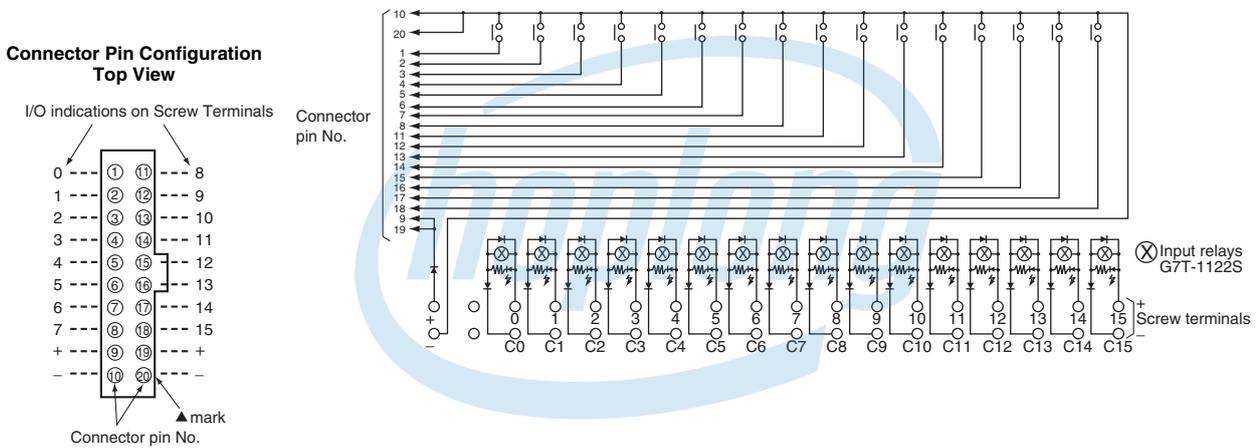
Cable Length

The following graph gives reference values for the relationship between cable length and voltage in the case where the voltage fluctuation of the power supply is 5%.

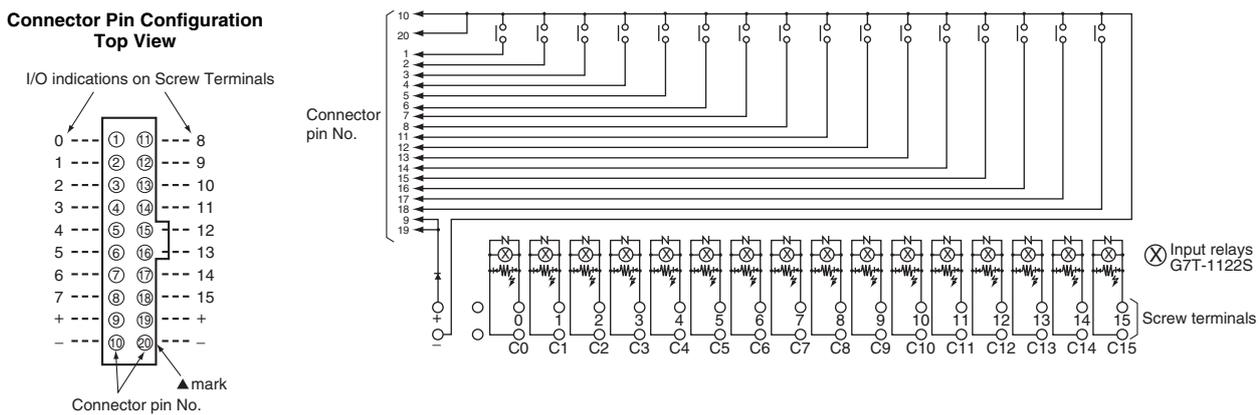


Internal Circuits

G7TC-ID16 (NPN input/- common)



G7TC-IA16 (NPN input/- common)



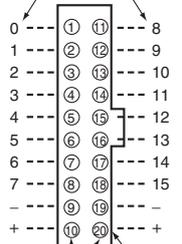
Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

G7TC-OC16 (NPN output/+ common)

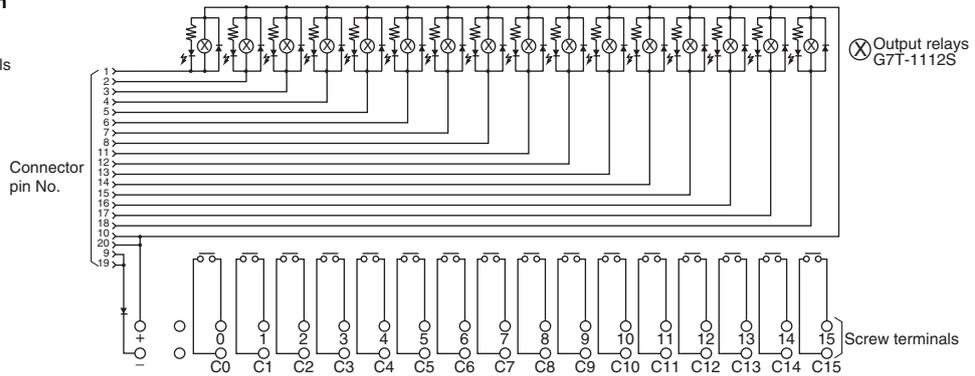
Note: A controller with an NPN transistor, common output can be connected to the G7TC-OC16.

**Connector Pin Configuration
Top View**

I/O indications on Screw Terminals



Connector No.



⊗ Output relays
G7T-1112S

Screw terminals

G7TC-OC16-1 (PNP output/- common)

Note: A controller with a PNP transistor, + common output can be connected to the G7TC-OC16-1.

Do not connect the G71 Remote Interface to the G7TC-OC16-1.

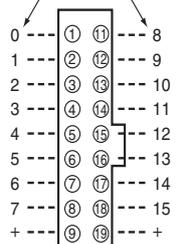
Due to the difference in polarity, the G71 will be damaged if the G7TC-OC16-1 and the G71 are connected to each other.

Use the G7TC-OC16 (NPN output/+ common) instead, to connect to the G71.

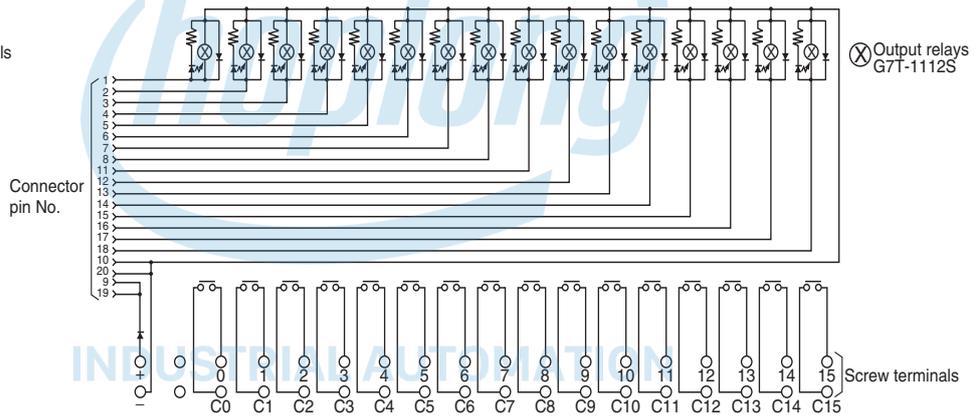
The reception of orders for G71 Remote Interface was discontinued at the end of March 2012.

**Connector Pin Configuration
Top View**

I/O indications on Screw Terminals



Connector No.



⊗ Output relays
G7T-1112S

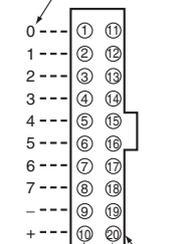
Screw terminals

G7TC-OC08 (NPN output/+ common)

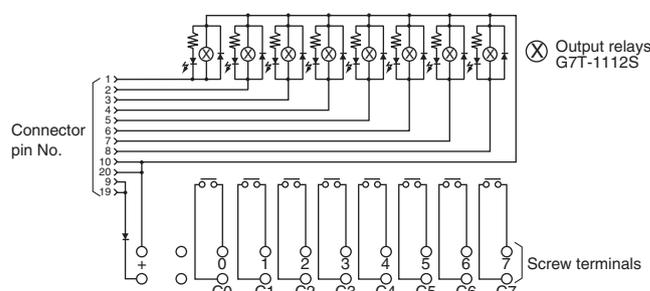
Note: A controller with an NPN transistor, -common output can be connected to the G7TC-OC08.

**Connector Pin Configuration
Top View**

I/O indications on Screw Terminals



Connector No.



⊗ Output relays
G7T-1112S

Screw terminals

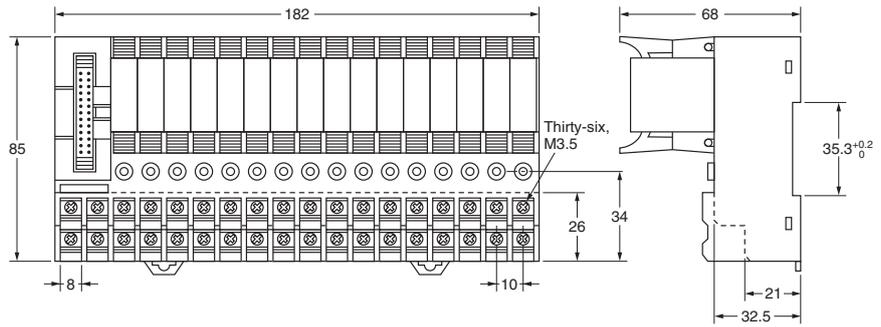
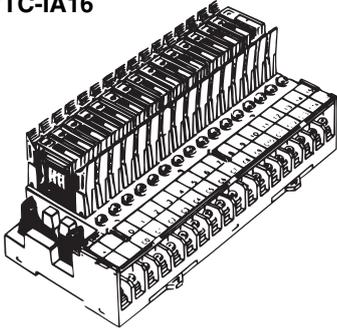
Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

Dimensions

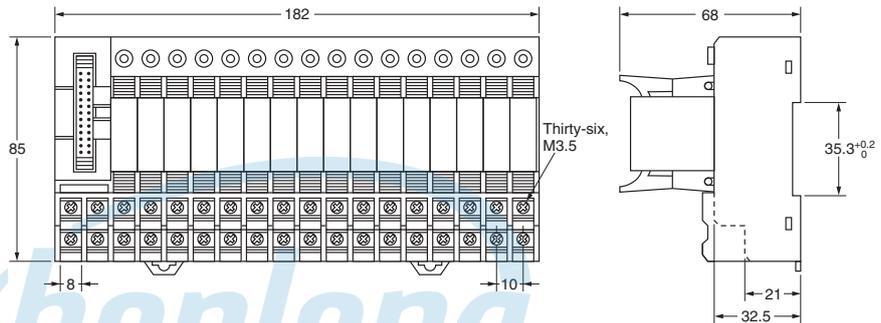
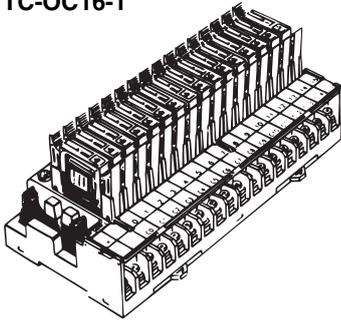
(Unit: mm)

I/O Relay Terminal

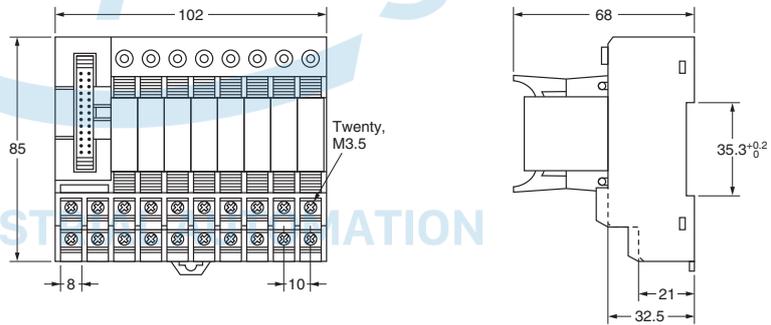
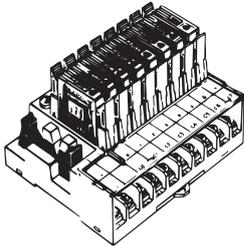
G7TC-ID16
G7TC-IA16



G7TC-OC16
G7TC-OC16-1



G7TC-OC08

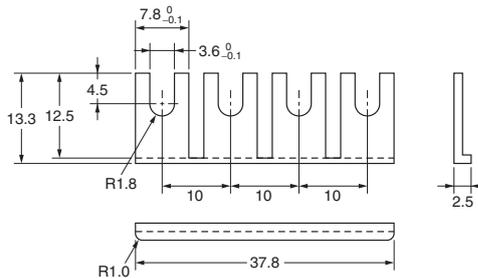
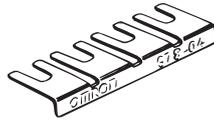


Accessories (Order Separately)

Short Bar

G78-04

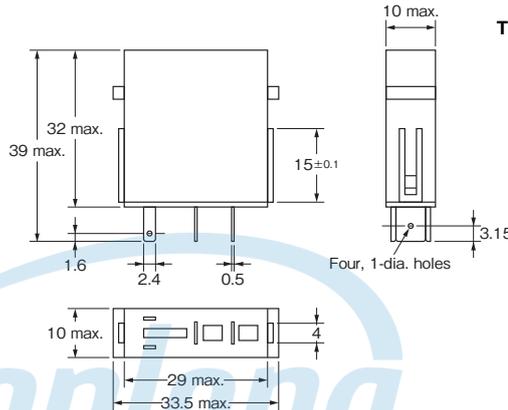
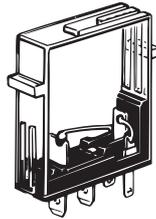
Use this piece for short-circuiting across terminals.
Max. current flow: 20 A



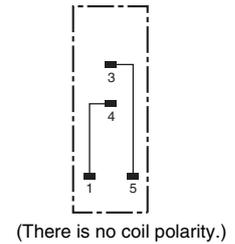
Output Short-Circuit Module

G77-S

The output of the I/O Relay Terminal can be obtained without relays through the G77-S Output Short-Circuit Module. Note that the G77-S Output Short-Circuit Module is not available for inputs.



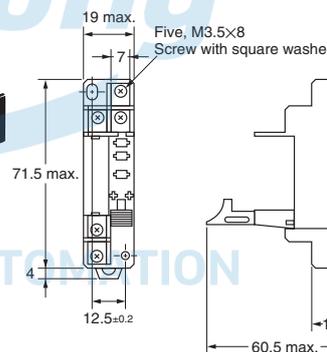
Terminal Arrangement/Internal Connections (Bottom View)



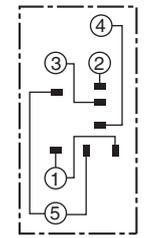
Socket

P7TF-05

The G7T (SPST-NO, SPST-NC, and SPDT types) and the G3TA I/O Relays can be mounted on the P7TF-05 Socket. The P7TF-05 can be used for applications involving sequences that require slim relays, or to enable use of SPDT relays with the I/O Relay Terminal. To use part of the I/O Relay Terminal with SPDT specifications, insert an Output Short-Circuit Module into the I/O Relay Terminal, and use the P7TF-05 Socket in combination with an SPDT Relay for the Module's output.



Internal Connections (Top View)

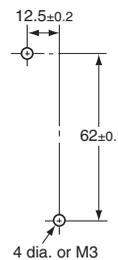


Note: Terminal 1 is positive when the I/O SSR is employed.

Specifications

Contact resistance	10 mΩ max. (measured at 5 V DC, 1 A)
Dielectric strength	2,000 VAC for 1 minute
Insulation resistance	1,000 MΩ min. (at 500 V)
Vibration resistance	10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude)
Shock resistance	1,000 m/s ²
Ambient temperature	Operating: -40 to 70°C (with no icing or condensation)
Ambient humidity	5% to 85%
Weight	Approx. 28 g

Mounting Hole Dimensions



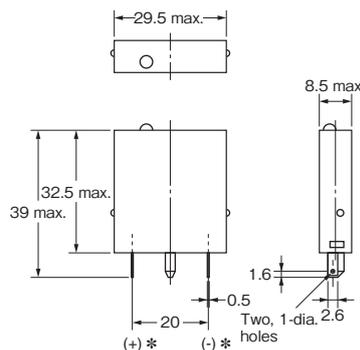
Note: Terminal 1 is positive when the G3TA or Indicator Module is employed.

Indicator Module

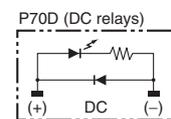
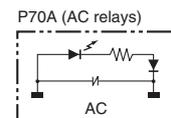
(With Surge Suppressing Function)

P70□

Remove the transparent style strip of the P7TF-05 socket and mount this module and it will function as an operation indicator with the surge suppression.



Internal Connection

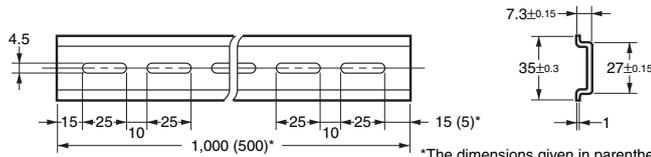
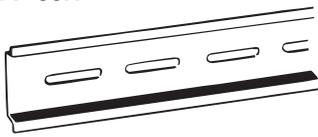


(There is no coil polarity for AC relays.)

* For DC relays

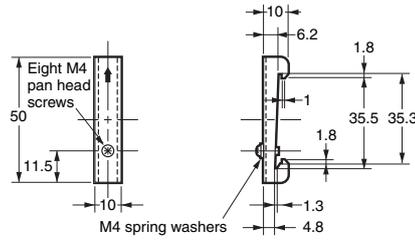
Parts for Rail Mounting

DIN Track
PFP-100N
PFP-50N

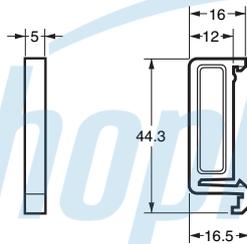
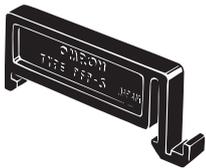


*The dimensions given in parentheses () are for the PFP-50N.

End Plate
PFP-M



Spacer
PFP-S



INDUSTRIAL AUTOMATION

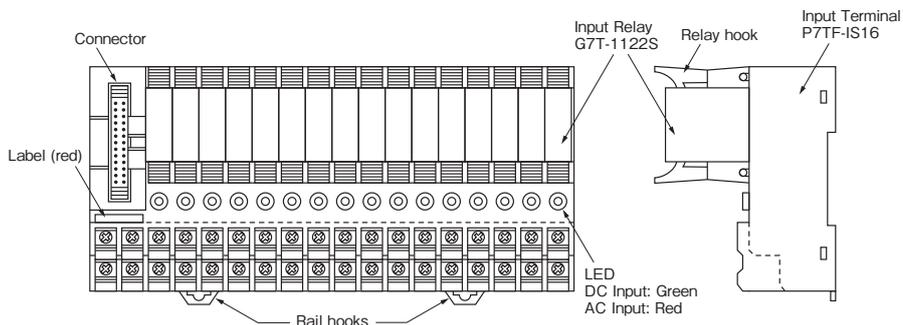
Terminal Arrangement / Terminal Connection Example

Input

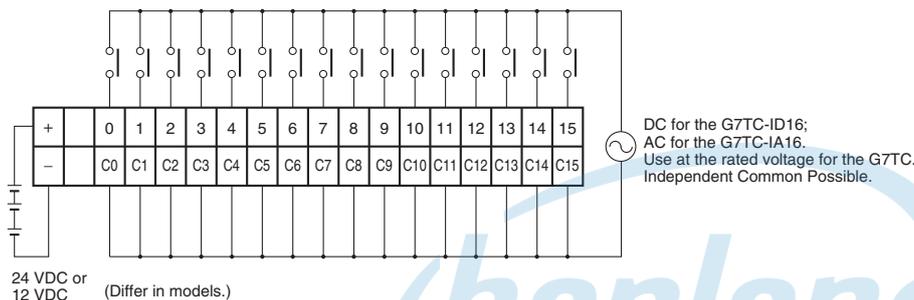
G7TC-ID16

G7TC-IA16

- Supply power to terminals 0 through 15 and C0 through C15 according to the voltage specifications of the I/O Relays and I/O Relay Terminal. Do not reverse positive and negative terminals on the DC Input Block (0 through 15 are positive; C0 through C15, negative). Short Bar is available.
- Supply to the power terminal (positive and negative) the rated voltage of the controller's input circuits (24 VDC or 12 VDC). Use a low-noise power source.
- When using a Connecting Cable with two connectors, be sure to use the Cable for Input Blocks. Using the Cable for Output Blocks may result in malfunction or damage to the product. Connecting Cable: XW2Z-R Tape Color: Red



External connections

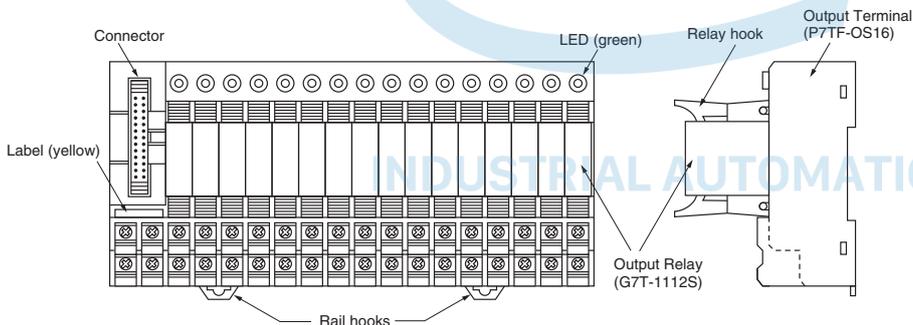


Output

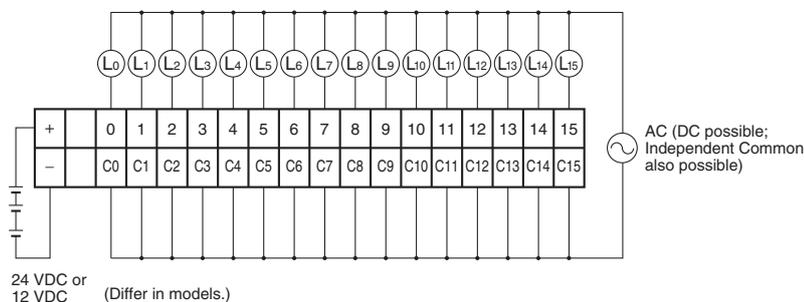
G7TC-OC16(-1)

G7TC-OC08

- There are voltage specifications for the Relays and Terminals. Depending on the controller connected, select either 12 or 24 VDC.
- Supply power to contact output terminals 0 through 15 and C0 through C15 according to the requirements of the loads. A 4 terminal Short Bar is available.
- Supply to the power terminals (positive and negative) power both for driving the relays and for controller output transistors. Match the controller and I/O Relay Terminal voltage specifications. Use a low- noise power source.
- When using a Connecting Cable with two connectors, be sure to use the Cable for Output Blocks. Using the Cable for Input Blocks may result in malfunction or damage to the product. Connecting Cable: XW2Z-R Tape Color: Yellow
- Output Block Unit G7TC-OC08 does not have terminals 8 through 15 and C8 through C15. Although a 20-pin connector is used, pins 11 through 18 are not connected.
- When an I/O SSR (G3TA-OD□□-US) is mounted, terminals 0 to 15 will be positive.

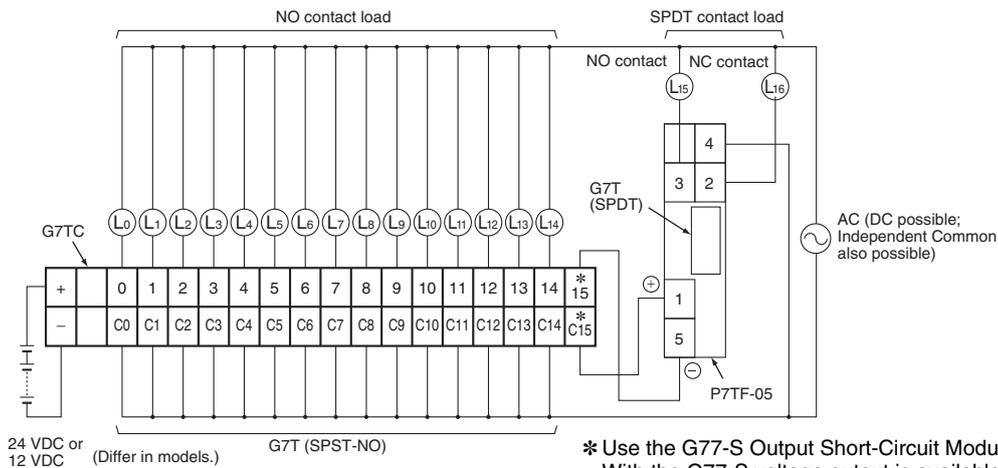


External connections



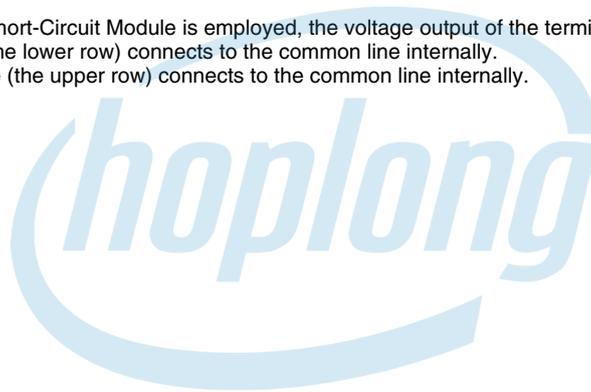
Connection Example for SPDT Relays

The following is an application example for the P7TF-05 using an SPDT Relay on a terminal of the G7TC-□□16(-1).



* Use the G77-S Output Short-Circuit Module in place of the G7T I/O Relay. With the G77-S voltage output is available between terminals 15 and C15. The maximum current is determined according to the controller.

Note: If more than one G77-S Output Short-Circuit Module is employed, the voltage output of the terminals on the G7TC is as follows:
 G7TC-OC16: The positive side (the lower row) connects to the common line internally.
 G7TC-OC16-1: The negative side (the upper row) connects to the common line internally.



INDUSTRIAL AUTOMATION

Safety Precautions

Be sure to read *The Safety Precautions for All I/O Relay Terminals* in the website at the following URL: <http://www.ia.omron.com/product/cautions/46/243/index.html>.

For PLC I/O unit connection procedures, refer to *G70V/G7TC/G70A/G70D Table of I/O Relay Terminal and connectable device combinations* (Cat. No. J217).

General

I/O Relays and I/O Relay Terminal can be combined as follows to form I/O Relay Terminal:

	I/O Relay Terminal	I/O Relay	I/O SSR #2		I/O Terminal (Socket) #3
DC input	G7TC-ID16	G7T-1122S *1	DC	G3TA-IDZ002 (M)-US	P7TF-IS16 (DC type)
AC input	G7TC-IA16		AC	G3TA-IAZR02S-US	P7TF-IS16 (AC type)
DC output	G7TC-OC16 G7TC-OC16-1 G7TC-OC08	G7T-1112S (SPST-NO type) *1 G7T-1012S (SPST-NC type)	AC	G3TA-OA202SZ-US G3TA-OA202SL-US	P7TF-OS16 P7TF-OS16-1
			DC	G3TA-ODX02S-US G3TA-OD201S-US	P7TF-OS08

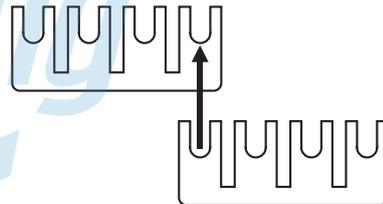
*1. These are the I/O Relays mounted on the G7TC I/O Relay Terminal.

*2. To use I/O SSRs, remove the I/O Relays and mount the I/O SSRs to the slots where the I/O Relays were mounted. Or, order and combine a P7TF I/O Terminal and I/O SSRs.

*3. The P7TF I/O Terminal provides only sockets. It does not have Relays mounted to it. Mount I/O Relays or I/O SSRs to the sockets. Specify the rated voltage in the same way as when ordering the G7TC I/O Relay Terminal.

- Combinations of AC Input Relays/SSRs and DC Input Relays/SSRs cannot be used with the same Terminal. This is because specifications for coil surge suppression elements are different. Relays/SSRs with different voltage specifications cannot be used with the same Terminal. (For example, a 100-VAC Input Relay and a 200-VAC Input Relay, or a 12-VDC Output Relay and a 24-VDC Output Relay cannot be used with the same Terminal.) This is because specifications of operation indicator circuits are different.
- Only use I/O Terminals, I/O Relays, and I/O SSRs with the same specifications for rated voltage.
- I/O Relay Terminal are color coded, as shown below, according to input/output and AC/DC specifications.
- DIN tracks are generally used to mount I/O Relay Terminal. For screw mounting, a 210-mm DIN track is available that can be used as an adapter in combination with End Plates (PFP-M, two required).
- A Short Bar is provided to connect four terminals. The current capacity of the Short Bar is 20 A. As long as this current capacity is not exceeded, the Short Bar can be used in combination as shown at the right to connect more than four terminals.

		I/O Terminal label	I/O Terminal indicators	I/O Relay case
for Input	DC	Red	Green	Green
	AC	Red	Red	Red
for Output	DC	Yellow	Green	Transparent

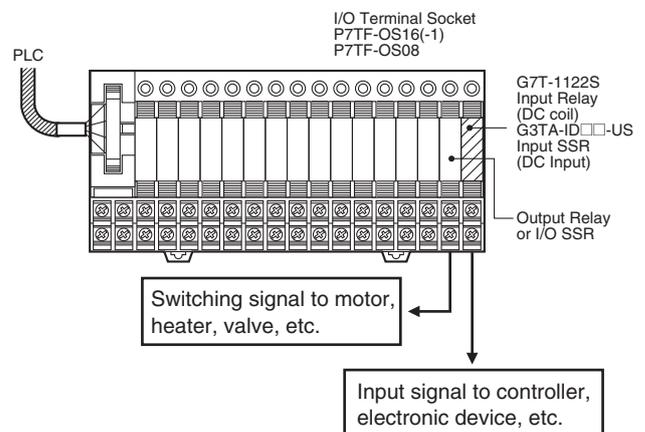


- Both Input and Output Blocks do not have internal power supplies. For an Output Block, supply the relay drive power to the positive and negative terminals (either 12 or 24 VDC). Loads (terminal contacts 0 through 15) must also be supplied with appropriate power. For an Input Block, supply, to the positive and negative terminals, power for input signals to the controller.
- The same Connecting Cable, XW2Z-RY, is used for the G7TC-OC08 eight-point Output Block as for other I/O Relay Terminal; leave 8 points unconnected.
- Indicators indicate the presence or absence of signals. Use the display lever inside each relay for fault diagnosis. (Some relays do not have this lever depending on the specifications.)
- Each relay must be pressed down until its hold-down hooks engage completely. Heating or malfunction can result if relays are not mounted properly.
- Unlabeled terminals are not electrically connected. Use these for repeater terminals.
- Indicator positions and relay orientation differ between Input and Output Blocks. This is to aid in differentiating Input Blocks from Output Blocks and in following signal flow.
- DC Input Blocks and Output Blocks with G3TA-OD□□□□ have positive and negative terminals, with the positive terminals normally being on the top of the I/O Relay Terminal. Reversing positive and negative terminals will prevent operation.

- Special Connecting Cables are provided for connections to OMRON PLC I/O Units with Connectors. Connecting Cables with two connectors, however, come in two types: Cables for Input Blocks (XW2Z-R) and Cables for Output Blocks (XW2Z-R). Be sure to purchase the correct Cable for the application.

Microload Switching

Input Relays (DC coil type) and I/O SSRs (DC input type) can be mounted onto an Output Block. Doing so enables using controller programming to simultaneously switch on or off two outputs (DPST-NO operation) to switch a SPST-NO load that in turn switches another SPST-NO load. One configuration for this is shown below.



Connecting Cables

Refer to *XW2Z-R Cables for I/O Relay Terminals* (Cat. No. G126) for details on the Connecting Cables.

Type (A side)	Name	I/O Classification	Appearance	Cable length L (mm)	Models		
Various devices	Cables with Loose Wires and Crimp Terminals XW2Z-RY□C	16 I/O points		1,000	XW2Z-RY100C		
				1,500	XW2Z-RY150C		
				2,000	XW2Z-RY200C		
				3,000	XW2Z-RY300C		
				5,000	XW2Z-RY500C		
	Cables with Loose Wires XW2Z-RA□C	16 I/O points		2,000	XW2Z-RA200C		
				5,000	XW2Z-RA500C		
Fujitsu connectors (24 pins)	Cables with Connectors (1:1) XW2Z-R□C	16 I/O points		1,000	XW2Z-R100C		
				1,500	XW2Z-R150C		
				2,000	XW2Z-R200C		
				3,000	XW2Z-R300C		
				5,000	XW2Z-R500C		
Fujitsu connectors (40 pins)	Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□	32 input points		(A) 1,000	(B) 750	XW2Z-RI100C-75	
				(A) 1,500	(B) 1,250	XW2Z-RI150C-125	
				(A) 2,000	(B) 1,750	XW2Z-RI200C-175	
				(A) 3,000	(B) 2,750	XW2Z-RI300C-275	
				(A) 5,000	(B) 4,750	XW2Z-RI500C-475	
		32 output points		(A) 1,000	(B) 750	XW2Z-RO100C-75	
				(A) 1,500	(B) 1,250	XW2Z-RO150C-125	
				(A) 2,000	(B) 1,750	XW2Z-RO200C-175	
				(A) 3,000	(B) 2,750	XW2Z-RO300C-275	
				(A) 5,000	(B) 4,750	XW2Z-RO500C-475	
Fujitsu connectors (56 pins)	Cables with Connectors (1:3) XW2Z-R□C-□-□	48 I/O points		(A) 1,500	(B) 1,250	(C) 1,000	XW2Z-R150C-125-100
				(A) 2,000	(B) 1,750	(C) 1,500	XW2Z-R200C-175-150
				(A) 3,000	(B) 2,750	(C) 2,500	XW2Z-R300C-275-250
MIL connectors (20 pins)	Cables with Connectors (1:1) XW2Z-RI□C, XW2Z-RO□C	16 I/O points		250	XW2Z-RI25C		
				500	XW2Z-RI50C		
				250	XW2Z-RO25C		
				500	XW2Z-RO50C		

Type (A side)	Name	I/O Classification	Appearance	Cable length L (mm)		Models	
				(A)	(B)		
MIL connectors (40 pins)	Cables with Connectors (1:2) XW2Z-RO□-□-D1, XW2Z-RI□-□-D1, XW2Z-RI□-□-D2, XW2Z-RM□-□-D1 *1 XW2Z-RM□-□-D2 *1	32 I/O points		(A) 500	(B) 250	XW2Z-RO50-25-D1	
				(A) 750	(B) 500	XW2Z-RO75-50-D1	
				(A) 1,000	(B) 750	XW2Z-RO100-75-D1	
				(A) 1,500	(B) 1,250	XW2Z-RO150-125-D1	
				(A) 2,000	(B) 1,750	XW2Z-RO200-175-D1	
				(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1	
				(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1	
				(A) 500	(B) 250	XW2Z-RI50-25-D1	
				(A) 750	(B) 500	XW2Z-RI75-50-D1	
		(A) 1,000		(B) 750	XW2Z-RI100-75-D1		
		(A) 1,500		(B) 1,250	XW2Z-RI150-125-D1		
		(A) 2,000		(B) 1,750	XW2Z-RI200-175-D1		
		(A) 3,000		(B) 2,750	XW2Z-RI300-275-D1		
		(A) 5,000		(B) 4,750	XW2Z-RI500-475-D1		
		(A) 500		(B) 250	XW2Z-RI50-25-D2		
		(A) 750		(B) 500	XW2Z-RI75-50-D2		
		16 inputs and 16 outputs (32 I/O points)		(A) 500	(B) 250	XW2Z-RM50-25-D1	
				(A) 750	(B) 500	XW2Z-RM75-50-D1	
(A) 500	(B) 250		XW2Z-RM50-25-D2				
(A) 750	(B) 500		XW2Z-RM75-50-D2				
Mitsubishi Electric PLCs with 32-point connectors (1:2) *2	Mitsubishi Electric PLC Connecting Cables XW2Z-RI□C-□-MN XW2Z-RO□C-□-MN		32 input points		(A) 1,000	(B) 750	XW2Z-RI100C-75-MN
					(A) 1,500	(B) 1,250	XW2Z-RI150C-125-MN
		(A) 2,000			(B) 1,750	XW2Z-RI200C-175-MN	
		(A) 3,000			(B) 2,750	XW2Z-RI300C-275-MN	
		32 output points			(A) 1,000	(B) 750	XW2Z-RO100C-75-MN
					(A) 1,500	(B) 1,250	XW2Z-RO150C-125-MN
(A) 2,000	(B) 1,750		XW2Z-RO200C-175-MN				
(A) 3,000	(B) 2,750	XW2Z-RO300C-275-MN					

Note: 1. Contact for a cable length other than the above.

2. For a connector pin assignment diagram and cable color information, refer to the wiring drawings.

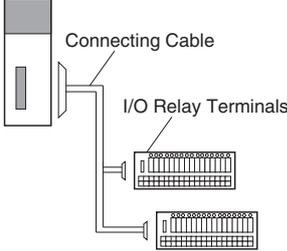
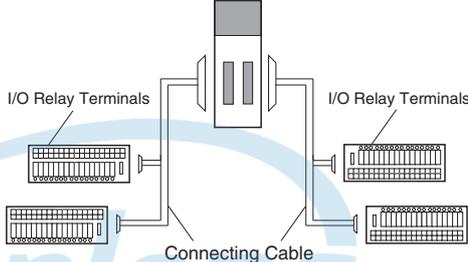
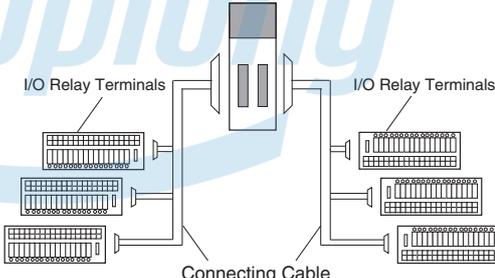
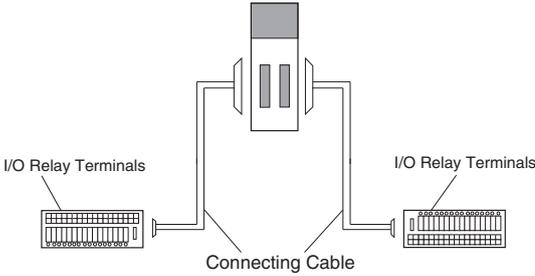
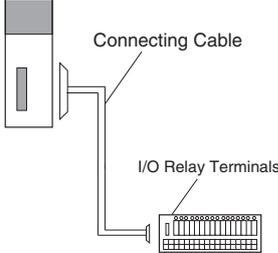
*1. These cables are used to connect to slave products for DeviceNet and other networks.

*2. For details on models that can be used, refer to *List of Combinations with the Mitsubishi PLC MELSEC-L Series, MELSEC-Q Series, and MELSEC iQ-R Series* on page 20.

Combinations of Connections

Refer to the next page for details on the combinations of cables and connection devices [OMRON PLC I/O Units NX Series, CJ Series, CS Series], [Mitsubishi PLC I/O Units MELSEC-L Series, MELSEC-Q Series, MELSEC IQ-R Series].
For combinations with other products, refer to *I/O Relay Terminals and Connected Devices* (Cat. No. J217) or to the datasheets for related products.

Connection Patterns

Pattern	Configuration
A	 <p>Diagram A shows a vertical PLC unit connected to two I/O Relay Terminal blocks. A single connecting cable runs from the PLC unit to the top terminal block, and then continues down to the bottom terminal block.</p>
B	 <p>Diagram B shows a vertical PLC unit connected to four I/O Relay Terminal blocks arranged in a 2x2 grid. A central connecting cable runs from the PLC unit to the center of the grid, with four separate lines extending to each of the four terminal blocks.</p>
D	 <p>Diagram D shows a vertical PLC unit connected to six I/O Relay Terminal blocks arranged in a 3x2 grid. A central connecting cable runs from the PLC unit to the center of the grid, with six separate lines extending to each of the six terminal blocks.</p>
E	 <p>Diagram E shows a vertical PLC unit connected to two I/O Relay Terminal blocks. A central connecting cable runs from the PLC unit, with two separate lines extending to the two terminal blocks positioned on opposite sides of the cable.</p>
F	 <p>Diagram F shows a vertical PLC unit connected to a single I/O Relay Terminal block. A connecting cable runs from the PLC unit to the terminal block.</p>

List of Combinations with the OMRON PLC NX Series

NX I/O Units				Conne- tion pattern	XW2Z-R Cables			G7TC I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model *	Quantity required	Specifications	Model	Quantity required
Input Units										
16 inputs	NX-ID5142-5	1 MIL connector (20 p)	NPN or PNP	F	1:1	XW2Z-RO□C	1	NPN Inputs	G7TC-IA16/ID16	1
32 inputs	NX-ID6142-5	1 MIL connector (40 p)	NPN or PNP	A	1:2	XW2Z-RO□-□-D1	1	NPN Inputs	G7TC-IA16/ID16	2
	NX-ID6142-6	1 MIL connector (40 p)	NPN or PNP		1:2	XW2Z-RI□C-□	1	NPN Inputs	G7TC-IA16/ID16	2
Output Units										
16 inputs	NX-OD5121-5	1 MIL connector (20 p)	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G7TC-OC16	1
	NX-OD5256-5	1 MIL connector (20 p)	PNP		1:1	XW2Z-RI□C	1	PNP outputs	G7TC-OC16-1	1
32 outputs	NX-OD6121-5	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G7TC-OC16	2
	NX-OD6256-5	1 MIL connector (40 p)	PNP		1:2	XW2Z-RI□-□-D1	1	PNP outputs	G7TC-OC16-1	2
32 outputs	NX-OD6121-6	1 Fujitsu connector (40 p)	NPN		1:2	XW2Z-RO□C-□	1	NPN outputs	G7TC-OC16	2
Mixed I/O Units										
16 inputs and 16 outputs	NX-MD6121-6	2 Fujitsu connectors (24 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: NPN or PNP	E	1:1	XW2Z-R□C	1	NPN Inputs	G7TC-IA16/ID16	1
			Outputs: NPN		1:1	XW2Z-R□C	1	NPN outputs	G7TC-OC16	1
	NX-MD6121-5	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: NPN or PNP		1:1	XW2Z-RO□C	1	NPN Inputs	G7TC-IA16/ID16	1
			Outputs: NPN		1:1	XW2Z-RO□C	1	NPN outputs	G7TC-OC16	1
	NX-MD6256-5	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: NPN or PNP		1:1	XW2Z-RO□C	1	NPN Inputs	G7TC-IA16/ID16	1
			Outputs: PNP		1:1	XW2Z-RO□C	1	PNP outputs	G7TC-OC16-1	1

* The box □ is replaced by the cable length. For details on the types, refer to pages 14 and 15.

Note: The G7TC-OC08 8-output type is also available.

INDUSTRIAL AUTOMATION

List of Combinations with the OMRON PLC CJ Series

CJ1W I/O Units				Conne ction pattern	XW2Z-R Cables			G7TC I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model #	Quantity required	Specifications	Model	Quantity required
Input Units										
32 inputs	CJ1W-ID231	1 Fujitsu connector (40 p)	NPN or PNP	A	1:2	XW2Z-RI□C-□	1	NPN Inputs	G7TC-IA16/ID16	2
	CJ1W-ID232	1 MIL connector (40 p)	NPN or PNP		1:2	XW2Z-RO□□-□-D1	1	NPN Inputs	G7TC-IA16/ID16	2
	CJ1W-ID233	1 MIL connector (40 p)	NPN or PNP		1:2	XW2Z-RO□□-□-D1	1	NPN Inputs	G7TC-IA16/ID16	2
64 inputs	CJ1W-ID261	2 Fujitsu connectors (40 p) (2, 32-point connectors)	NPN or PNP	B	1:2	XW2Z-RI□C-□	2	NPN Inputs	G7TC-IA16/ID16	4
	CJ1W-ID262	2 MIL connectors (40p) (2, 32-point connectors)	NPN or PNP		1:2	XW2Z-RO□□-□-D1	2	NPN Inputs	G7TC-IA16/ID16	4
Output Units										
32 outputs	CJ1W-OD231	1 Fujitsu connector (40 p)	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G7TC-OC16	2
	CJ1W-OD233	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□□-□-D1	1	NPN outputs	G7TC-OC16	2
	CJ1W-OD232	1 MIL connector (40 p)	Sourcing (PNP)		1:2	XW2Z-RI□□-□-D1	1	PNP outputs	G7TC-OC16-1	2
	CJ1W-OD234	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□□-□-D1	1	NPN outputs	G7TC-OC16	2
64 outputs	CJ1W-OD261	2 Fujitsu connectors (40 p) (2, 32-point connectors)	Sinking (NPN)	B	1:2	XW2Z-RO□C-□	2	NPN outputs	G7TC-OC16	4
	CJ1W-OD262	2 MIL connectors (40 p) (2, 32-point connectors)	Sourcing (PNP)		1:2	XW2Z-RI□□-□-D1	2	PNP outputs	G7TC-OC16-1	4
	CJ1W-OD263	2 MIL connectors (40 p) (2, 32-point connectors)	Sinking (NPN)		1:2	XW2Z-RO□□-□-D1	2	NPN outputs	G7TC-OC16	4
Mixed I/O Units										
16 inputs and 16 outputs	CJ1W-MD231	2 Fujitsu connectors (24 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)	E	1:1	XW2Z-R□C	1	NPN Inputs	G7TC-IA16/ID16	1
			Outputs: Sinking (NPN)		1:1	XW2Z-R□C	1	NPN outputs	G7TC-OC16	1
	CJ1W-MD233	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)		1:1	XW2Z-RO□C	1	NPN Inputs	G7TC-IA16/ID16	1
			Outputs: Sinking (NPN)		1:1	XW2Z-RO□C	1	NPN outputs	G7TC-OC16	1
	CJ1W-MD232	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)		1:1	XW2Z-RO□C	1	NPN Inputs	G7TC-IA16/ID16	1
			Inputs: Sourcing (PNP)		1:1	XW2Z-RO□C	1	PNP outputs	G7TC-OC16-1	1
32 inputs/32 outputs	CJ1W-MD261	2 Fujitsu connectors (40p) (1 for 32 inputs and 1 for 32 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)	B	1:2	XW2Z-RI□C-□	1	NPN Inputs	G7TC-IA16/ID16	2
			Outputs: Sinking (NPN)		1:2	XW2Z-RO□C-□	1	NPN outputs	G7TC-OC16	2
	CJ1W-MD263	2 MIL connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)		1:2	XW2Z-RO□□-□-D1	1	NPN Inputs	G7TC-IA16/ID16	2
			Outputs: Sinking (NPN)		1:2	XW2Z-RO□□-□-D1	1	NPN outputs	G7TC-OC16	2

* The box □ is replaced by the cable length. For details on the types, refer to pages 14 and 15.

Note: The G7TC-OC08 8-output type is also available.

List of Combinations with the OMRON PLC CS Series

CJ1W I/O Units				Conne- tion pattern	XW2Z-R Cables			G7TC I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model *	Quantity required	Specifications	Model	Quantity required
Input Units										
32 inputs	CS1W-ID231	1 Fujitsu connector (40 p)	NPN or PNP	A	1:2	XW2Z-RI□C-□	1	NPN Inputs	G7TC-IA16/ID16	2
64 inputs	CS1W-ID261	2 Fujitsu connectors (40 p) (2, 32-point connectors)	NPN or PNP	B	1:2	XW2Z-RI□C-□	2	NPN Inputs	G7TC-IA16/ID16	4
96 inputs	CS1W-ID291	2 Fujitsu connectors (56 p) (2, 48-point connectors)	NPN or PNP	D	1:3	XW2Z-R□C-□-□	2	NPN Inputs	G7TC-IA16/ID16	6
Output Units Transistor Output Units										
32 outputs	CS1W-OD231	1 Fujitsu connector (40 p)	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G7TC-OC16	2
	CS1W-OD232	1 Fujitsu connector (40 p)	Sourcing (PNP)		1:2	---	1	PNP outputs	G7TC-OC16-1	2
64 outputs	CS1W-OD261	2 Fujitsu connectors (40 p) (2, 32-point connectors)	Sinking (NPN)	B	1:2	XW2Z-RO□C-□	2	NPN outputs	G7TC-OC16	4
	CS1W-OD262	2 Fujitsu connectors (40 p) (2, 32-point connectors)	Sourcing (PNP)		1:2	---	2	PNP outputs	G7TC-OC16-1	4
96 outputs	CS1W-OD291	2 Fujitsu connectors (56 p) (2, 48-point connectors)	Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	2	NPN outputs	G7TC-OC16	6
	CS1W-OD292	2 Fujitsu connectors (56 p) (2, 48-point connectors)	Sourcing (PNP)		1:3	XW2Z-R□C-□-□	2	PNP outputs	G7TC-OC16-1	6
Mixed I/O Units DC Transistor Output Units										
32 inputs/ 32 outputs	CS1W-MD261	2 Fujitsu connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)	B	1:2	XW2Z-RI□C-□	1	NPN Inputs	G7TC-IA16/ID16	2
			Outputs: Sinking (NPN)		1:2	XW2Z-RO□C-□	1	NPN outputs	G7TC-OC16	2
	CS1W-MD262	2 Fujitsu connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)		1:2	XW2Z-RI□C-□	1	NPN Inputs	G7TC-IA16/ID16	2
			Outputs: Sourcing (PNP)		1:2	---	1	PNP outputs	G7TC-OC16-1	2
48 inputs/ 48 outputs	CS1W-MD291	2 Fujitsu connectors (56 p) (1 for 48 inputs and 1 for 48 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)	D	1:3	XW2Z-R□C-□-□	1	NPN Inputs	G7TC-IA16/ID16	3
			Outputs: Sinking (NPN)		1:3	XW2Z-R□C-□-□	1	NPN outputs	G7TC-OC16	3
	CS1W-MD292	2 Fujitsu connectors (56 p) (1 for 48 inputs and 1 for 48 outputs)	Inputs: Sinking/Sourcing (NPN or PNP)		1:3	XW2Z-R□C-□-□	1	NPN Inputs	G7TC-IA16/ID16	3
			Outputs: Sourcing (PNP)		1:3	XW2Z-R□C-□-□	1	PNP outputs	G7TC-OC16-1	3

* The box □ is replaced by the cable length. For details on the types, refer to pages 14 and 15.
 Note: The G7TC-OC08 8-output type is also available.

Refer to the manuals for the connected PLC for the connections to I/O Units for OMRON PLCs.

Series	Model	Man. No.	Manual Name
CS1	CS1G-CPU□□□, CS1H-CPU□□□	W339	Programmable Controllers Operation Manual
CJ1	CJ1H-CPU□□□-R, CJ1G/H-CPU□□□, CJ1G-CPU□□□, CJ1M-CPU□□, CJ1G-CPU□□	W393	CJ Series Programmable Controllers Operation Manual
CJ2	CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□	W472	CJ-series CJ2 CPU Unit Hardware User's Manual
NJ	NJ501-□□□□	W500	NJ-series CPU Unit Hardware User's Manual
NX	NX-ID□□□□, NX-IA□□□□, NX-OD□□□□, NX-OC□□□□, NX-MD□□□□	W521	NX-series Digital I/O Units User's Manual

List of Combinations with the Mitsubishi PLC MELSEC-L Series, MELSEC-Q Series, and MELSEC iQ-R Series

PLC I/O Unit				Connection pattern	XW2Z-R Cables			G7TC I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model #1	Quantity required	Specifications	Model	Quantity required
Input Units										
32 inputs	LX41C4	1 Fujitsu connector	NPN or PNP	A	1:2	XW2Z-R□□□-□□MN	1	Inputs *2	G7TC-ID16/IA16	2
	QX41/QX41-S1/ QX41-S2									
	QX71									
	RX41C4									
64 inputs	LX42C4	2 Fujitsu connectors	NPN or PNP	B	1:2	XW2Z-R□□□-□□MN	2	Inputs *2	G7TC-ID16/IA16	4
	QX42/QX42-S1									
	QX82/QX82-S1									
	RX42C4									
Output Units										
32 outputs	LY41NT1P	1 Fujitsu connector	NPN	A	1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	QY41P									
	QY71									
	RY41NT2P	1 Fujitsu connector	PNP			---				
	LY41PT1P									
	RY41PT1P									
64 outputs	LY42NT1P	2 Fujitsu connectors	NPN	B	1:2	XW2Z-RO□□□-□□MN	2	NPN outputs	G7TC-OC16	4
	RY42NT2P									
	QY42P									
	LY42PT1P	2 Fujitsu connectors	PNP			---				
	RY42PT1P									
	QY82P									
Mixed I/O Units										
32 inputs/ 32 outputs	RH42C4NT2P (Input side)	2 Fujitsu connectors	NPN or PNP	B	1:2	XW2Z-R□□□-□□MN	1	Inputs *2	G7TC-ID16/IA16	2
	RH42C4NT2P (Output side)		NPN			XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	QH42P (Input side)	2 Fujitsu connectors	NPN or PNP			XW2Z-R□□□-□□MN	1	Inputs *2	G7TC-ID16/IA16	2
	QH42P (Output side)		NPN			XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	QX41Y41P (Input side)	2 Fujitsu connectors	NPN or PNP			XW2Z-R□□□-□□MN	1	Inputs *2	G7TC-ID16/IA16	2
	QX41Y41P (Output side)		NPN			XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	LH42C4NT1P (Input side)	2 Fujitsu connectors	NPN or PNP			XW2Z-R□□□-□□MN	1	Inputs *2	G7TC-ID16/IA16	2
	LH42C4NT1P (Output side)		NPN			XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	LH42C4PT1P (Input side)	2 Fujitsu connectors	NPN or PNP			XW2Z-R□□□-□□MN	1	Inputs *2	G7TC-ID16/IA16	2
	LH42C4PT1P (Output side)		PNP			XW2Z-RO□□□-□□MN	1	---		

Note: Contact for a cable length other than the above.

Cables that can be connected to the QX81, QX81-S2, and QY81P have not been prepared.

*1. The box □ is replaced by the cable length. For details on the types, refer to pages 14 and 15.

*2. Either NPN inputs or PNP inputs can be used.

CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

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