OMRON

I/O Terminal Socket G70A

16-point I/O Terminal Socket accepts Various Devices such as G2R Relays, Solid State Relays, and Timers for More System Flexibility.

- Connects to a PLC with a simple snap-in connector.
- The G70A-ZOC16-3 cab be combined with
- a DRT1-OD32ML I/O Terminal for DeviceNet connectivity.
- SPDT relays can be mounted.
- Conforms to VDE (VDE0160) and CE standards.
- Electric-shock preventive (finger-touch protection *) terminal socket.
- High-capacity (10 A) terminal socket.
- Built-in diodes for coil surge suppression.

*Round terminals cannot be used. Use Y terminals or ferrule terminals instead.

Ordering Information

I/O Terminal Socket

Classification	cation Internal I/O common Rated voltage		Model
Output	NPN (+ common)	24 VDC	G70A-ZOC16-3
	PNP (– common)	24 VDC	G70A-ZOC16-4

* Each relay to be mounted must incorporate a coil that has proper specifications within the maximum rated voltage range.

Suitable Relay/Solid State Relay/Solid-State Timer

Classification	I/O Terminal Socket	Relay	Solid State Relay (SSR)	Solid-State Timer
Output	NPN: G70A-ZOC16-3 PNP: G70A-ZOC16-4	G2R-1-S G2R-1-SN G2R-1-S (S) G2R-1-SN (S)	G3R-OA202SZN-UTU G3R-OA202SLN-UTU G3R-ODX02SN-UTU G3R-OD201SN-UTU G3RZ-201SLN	H3RN-1 H3RN-11



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

Accessories (Order Separately) Short Bar

Applicable model	Model
G70A-ZOC16-3	G78-16-E
G70A-ZOC16-4	6/6 10 E

Connecting Sockets for I/O Terminal Expansion

Number of poles	Model
1 pole (G2R: 1 pole usage)	P2RFZ-05-E
2 poles (G2R: 2 poles usage)	P2RFZ-08-E

Cables for I/O Relay Terminals XW2Z-R

- Cable with Loose Wire and Crimp Terminals: XW2Z-RY $\square C$
- Cable with Loose Wires: XW2Z-RA□C
- Cable with connectors

 Fujitsu/Otax 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 12 for details.

Appearance		Name	Model
		1 m	PFP-100N
	DIN HACKS	DIN Tracks 0.5 m	
Contraction of the second seco	End Plate		PFP-M
	Spacer		PFP-S

Accessories for DIN Track Mounting

2

Specifications

Ratings/Characteristics

Item	G70A-ZOC16-3 G70A-ZOC16-4		
Contact resistance	10 m Ω (excluding the resistance of the relay to be used)		
Permissible current	10 A		
Max. operating voltage	380 VAC, 125 VDC		
Dielectric strength	4,000 VAC, 50/60 Hz for 1 min between connector and output terminals 2,000 VAC, 50/60 Hz for 1 min between output terminals 250 VAC, 50/60 Hz for 1 min between connectors		
Insulation resistance	Between connector and I/O terminals: 1,000 M Ω (at 500 V) Other: 100 M Ω (at 500 V)		
Vibration resistance	Malfunction: 10 to 61.2 to 10 Hz, 0.1-mm single amplitude (0.2-mm double amplitude); 61.2 to 150 to 61.2 Hz, 14.7 m/s ²		
Shock resistance	Malfunction: 200 m/s ²		
Noise immunity	Noise level: 2.0 kV; pulse width: 100 ns to 1 µs		
Ambient temperature	Operating: 0 to 55°C (with no condensation or icing)		
Ambient humidity	Operating: 35% to 85%		
Coil surge absorption element	Diode: 1 A, 400 V		
Protection diode for inverse connection	Diode (2 A, withstand inverse voltage: 40 V)		
Tensile strength	No damage when a tensile force of 49 N is applied for 1 second in any direction		
I/O terminal tightening torque	Tightening strength: 0.59 N·m; Tensile strength 49 N for 1 min.		
Weight	Approx. 400 g		

* Use a DC relay with a built-in diode because a DC relay without a built-in diode does not absorb any coil surge.

Approved Standards

The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.

UL standard certification (File No. E95399)

Model	Ratings	Standard number	Category	Listed/Recognized	Contact ratings
G70A-ZOC16-3 G70A-ZOC16-4		UL508	NRAQ2	Recognized	10 A 250 VAC

CSA certified (File No. LR35535)

Model	Ratings	Standard number	Class number	Contact ratings
G70A-ZOC16-3		CSA C22.2	3211 04	10 A 250 VAC
G70A-ZOC16-4		No.14	5211 04	10 A 30 VDC

VDE Standards

Model	Standard number	Certification No.
G70A-ZOC16-3 G70A-ZOC16-4	VDE0160	124796

•Relay (G2R-1-S, G2R-1-SN, G2R-1-S (S), G2R-1-SN (S))

Coil Ratings

•		
Rated voltage		24 VDC
Rated current		21.8 mA
Coil resistance		1,100 Ω
Coil inductance	Armature OFF	4.27
(H) (ref. value)	Armature ON	8.55
Must operate voltag	je	70% min. of rated voltage
Must release voltag	e	15% min. of rated voltage
Max. voltage		110% of rated voltage
Power consumption	า	Approx. 0.53 W

Contact Ratings

Number of poles	1 pole		
Load	Resistive load ($\cos\phi = 1$)	Inductive load ($\cos\phi = 0.4$; L/R = 7 ms)	
Rated load	10 A at 250 VAC; 10 A at 30 VDC	7.5 A at 250 VAC; 5 A at 30 VDC	
Rated carry current	10 A		
Max. operating voltage	380 VAC, 125 VDC		
Max. operating current	10 A		
Max. switching capacity	2,500 VA, 300 W	2,500 VA, 300 W 1,875 VA, 150 W	
Min. permissible load	100 mA at 5 VDC		

Relay (G2R-1A3-SN (SND), G2R-13-SN (SND))

Coil Ratings

Rated voltage		230 VAC	12 VDC	24 VDC
Rated current	50 Hz	3.7 mA		21.8 mA
Raleu current	60 Hz	3.1 mA	43.0 IIIA	21.0 11A
Coil resistance		30,000 Ω	275 Ω	1,100 Ω
Must operate volt	age	80% max. of rated voltage	70% max. of rated vo	Itage
Must release volta	age	30% min. of rated voltage	15% min. of rated volt	tage
Max. voltage		110% of rated voltage		
Power consumpti	on	Approx. 0.7 W (60 Hz)	Approx. 0.53 W	

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of +15%/-20% (AC rated current) or ±10% (DC coil resistance).

2. LEDs are used for the built-in operation indicator. For models equipped with these indications, the VAC rated current must be increased by approximately 1 mA; the VDC rated current, by approximately 4 mA.
Operating characteristics are measured at a coil temperature of 23°C.

•Solid State Relay (G3R-I/O)

Ratings

Input Module

Input

Model	Rated voltage	Operating voltage	Input current	Must operate voltage	Must release voltage
G3R-IAZR1SN	100 to 240 VAC	60 to 264 VAC	15 mA max.	60 VAC max.	20 VAC min.
G3R-IDZR1SN	5 VDC	4 to 6 VDC		4 VDC max.	1 VDC min.
G3R-IDZR I SN	12 to 24 VDC	6.6 to 32 VDC	8 mA max.	6.6 VDC max.	3.6 VDC min.
G3R-IDZR1SN-1	5 VDC	4 to 6 VDC	o IIIA IIIaX.	4 VDC max.	1 VDC min.
GSR-IDZR ISN-1	12 to 24 VDC	6.6 to 32 VDC		6.6 VDC max.	3.6 VDC min.

Output

Model	Load voltage	Load current
G3R-IAZR1SN		
G3R-IDZR1SN	4 to 32 VDC	0.1 to 100 mA
G3R-IDZR1SN-1		

Output Module

Input

Model	Rated voltage	Operating voltage	Input current	Must operate voltage	Must release voltage
G3R-OA202SZN-UTU		4 to 32 VDC	15 mA max.		1 VDC min.
G3R-OA202SLN-UTU	5 to 24 VDC		(at 25°C)	4 VDC max.	
G3R-ODX02SN-UTU	51024 000		8 mA max.		
G3R-OD201SN-UTU			o ma max.		

Output

Model	Load voltage	Load current *1, *2	Inrush current	
G3R-OA202SZN-UTU	- 75 to 264 VAC	0.05 to 2 A	30 A (60 Hz, 1 cycle)	
G3R-OA202SLN-UTU	73 10 204 VAC	0.03 10 2 A		
G3R-ODX02SN-UTU	4 to 60 VDC	0.01 to 2 A	8 A (10 ms)	
G3R-OD201SN-UTU	40 to 200 VDC	0.01 to 1.5 A	8 A (10 ms)	

*1. Depends on the ambient temperature. Refer to the Engineering Data (Reference Value) Load Current vs. Ambient Temperature Rating on page 7 for details. ***2.** The minimum current value is measured at 10°C min.

Characteristics

Input Module

Item	G3R-IAZR1SN	G3R-IDZR1SN	G3R-IDZR1SN-1					
Operate time	20 ms max.	0.1 ms max.	15 ms max.					
Release time	20 ms max.	0.1 ms max.	15 ms max.					
Response frequency	10 Hz	1 kHz	10 Hz					
Output ON voltage drop	1.6 V max.		· ·					
Leakage current	5 μA max.	5 μA max.						
Insulation resistance	100 M Ω min. between input a	100 M Ω min. between input and output						
Dielectric strength	4,000 VAC, 50/60 Hz for 1 m	in between input and output						
Vibration resistance	10 to 55 to 10 Hz, 0.75-mm s	ingle amplitude (1.5-mm double am	nplitude)					
Shock resistance	1,000 m/s ²							
Ambient temperature	Operating: -30 to 80°C (with no icing) Storage: -30 to 100°C (with no icing)							
Ambient humidity	Operating: 45% to 85%	Operating: 45% to 85%						
Weight	Approx. 18 g		Approx. 18 g					

Output Module

Item	G3R-OA202SZN-UTU	G3R-OA202SLN-UTU	G3R-ODX02SN-UTU	G3R-OD201SN-UTU		
Operate time	1/2 of load power source cycle + 1 ms max.	1 ms max.				
Release time	1/2 of load power source	cycle + 1 ms max.	2 ms max.			
Response frequency	20 Hz		100 Hz			
Output ON voltage drop	1.6 V max.		2.5 V max.			
Leakage current	1.5 mA max.		1 mA max.			
Insulation resistance	100 MΩ min. between inp	out and output				
Dielectric strength	4,000 VAC, 50/60 Hz for	1 min between input and o	output			
Vibration resistance	10 to 55 to 10 Hz, 0.75-m	nm single amplitude (1.5-m	nm double amplitude)			
Shock resistance	1,000 m/s ²					
Ambient temperature		Operating: -30 to 80°C (with no icing) Storage: -30 to 100°C (with no icing)				
Ambient humidity	Operating: 45% to 85%					
Weight	Approx. 18 g					

●Solid State Relay (G3RZ)

Ratings

Item	Item Input				Output					
	Rated	Operating		Voltag	e level	Rated load	Load	Lood	Surge	
Model	voltage	Operating voltage	Impedance	Must-operate voltage	Must-release voltage	voltage	voltage range	Load current *	withstand current	
	5 VDC	4 to 6 VDC	400 Ω ±20%	4 VDC max.		E	o	100104 to 1004	10 A (10 ms)	
G3RZ-201SLN	12 VDC	9.6 to 14.4 VDC	1.1 kΩ ±20%	9.6 VDC max.	1 VDC min.		VAC 3 to 264 VAC VDC 3 to 125 VDC			
	24 VDC	19.2 to 28.8 VDC	2.2 kΩ ±20%	19.2 VDC max.			0.00.20700			

* Depends on the ambient temperature. Refer to the reference data Load Current vs. Ambient Temperature Rating on page 7 for details.

Characteristics

Operation time	6 ms max.
Release time	10 ms max.
Output ON resistance	2.4 Ω max.
OFF leakage current	10 μA max. (at 125 VDC) 100 μA max. (at 200 VAC)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,500 VAC at 50/60 Hz for 1 min. between inputs and outputs
Vibration resistance	10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)
Shock resistance	1,000 m/s ²
Storage temperature	-30 to 100°C (with no icing or condensation)
Ambient operating temperature	-30 to 85°C (with no icing or condensation)
Ambient operating humidity	45% to 85%
Weight	Approx. 20 g

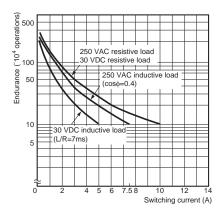
•Solid-State Timer (H3RN)

For H3RN specifications, refer to the H3RN Datasheet.

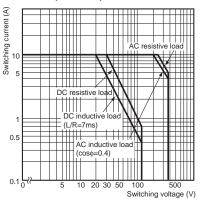
Engineering Data (Reference Value)

When Mounted to a G2R

Endurance



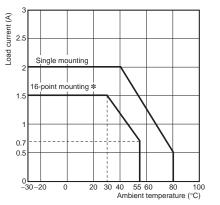
Maximum Switching Power G2R-1-S (24 VDC)

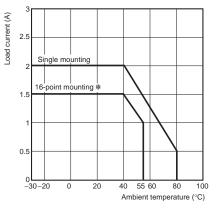


Note: The characteristics shown here are for 16-point mounting. This data was produced from actual values sampled on production lines, and should be used for reference purposes only. Since relays are mass-produced, a certain generate the parameter is generated in amount of tolerance is generally allowed in their application.

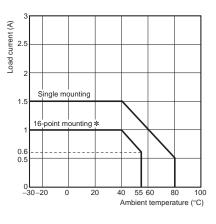
When Mounted to a G3R-I/O

Load Current vs. Ambient Temperature Rating G3R-OA202SZN-UTU G3R-ODX02SN-UTU G3R-OA202SLN-UTU





G3R-OD201SN-UTU

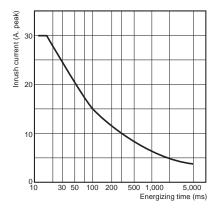


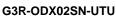
* On G70A-ZOC16, fully mounted.

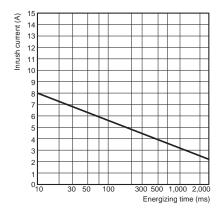
Inrush Current Resistivity

Non-repetitive (Keep the inrush current to half the rated value if it occurs repetitively.)

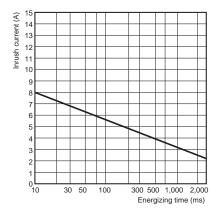
G3R-OA202SZN-UTU G3R-OA202SLN-UTU







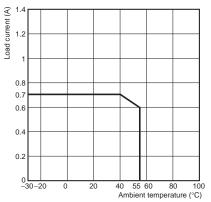
G3R-OD201SN-UTU



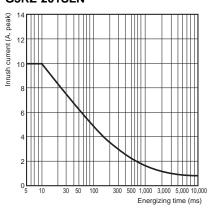
When Mounted to a G3RZ

Load Current vs. Ambient **Temperature Rating**

G3RZ-201SLN



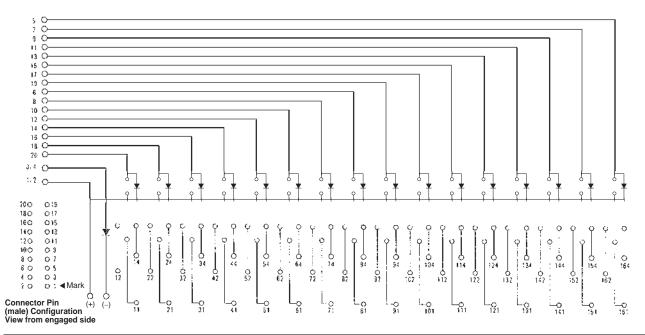
Inrush Current Resistivity Non-repetitive (Keep the inrush current to half the rated value if it occurs repetitively.) G3RZ-201SLN



Internal Circuits

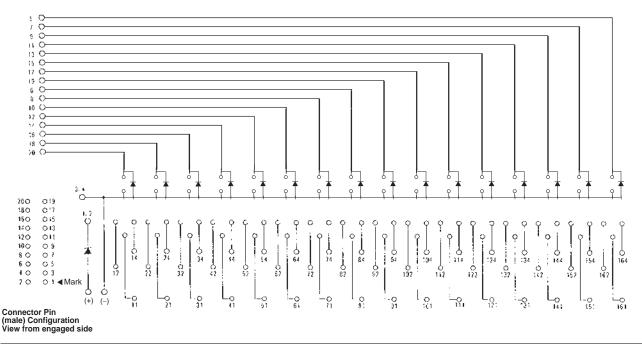
• G70A-ZOC16-3 (NPN)

NPN (positive common): The output at the connected controller will have a negative common from an NPN transistor.



G70A-ZOC16-4 (PNP)

PNP (negative common): The output at the connected controller will have a positive common from a PNP transistor.

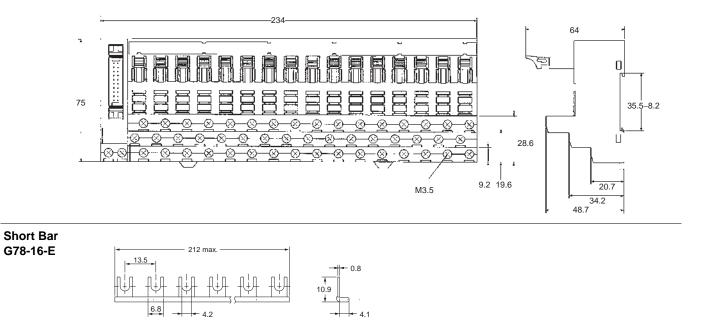


Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

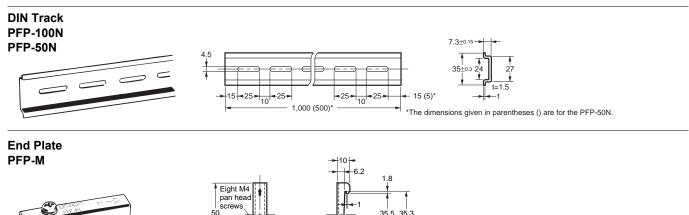
G70A

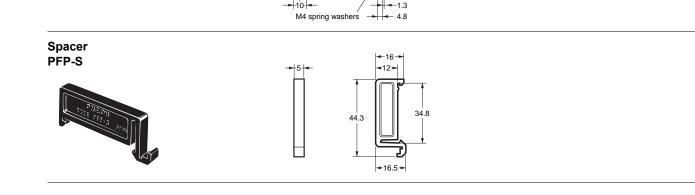
Dimensions

G70A-ZOC16 (Output)

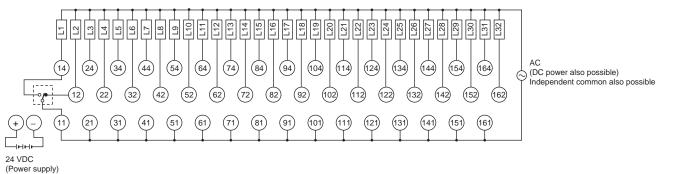


Parts for Rail Mounting





Terminal Arrangement/Internal Connection



Note: The above diagram shows the Unit mounted to a G2R-1-S.

When mounting to a G3R-OA \Box -UTU or G3RZ-201SLN, pins 11 to 14 are output terminals. When mounting to a G3R-OD \Box -UTU, pin 14 is a plus terminal and pin 11 is a minus terminal. When mounting to G3RZ-201SLN, there is no polarity.

Safety Precautions

Be sure to read *the Safety Precautions for All I/O Relay Terminals* in the website: http://www.ia.omron.com/.

G70A

Connecting Cables

Refer to the datasheet for the XW2Z-R Cables for I/O Relay Terminals (Cat. No. G126).

Туре	Name	I/O Classification	Appearance	Cable leng	gth L (mm)	Models
				1,0	000	XW2Z-RY100C
	Cables with Loose Wires and Crimp Terminals		A side B side Device end I/O Relay Terminal	1,5	500	XW2Z-RY150C
		16 I/O points	Device end I/O Relay Terminal	2,0	000	XW2Z-RY200C
	XW2Z-RY□C			3,0	000	XW2Z-RY300C
Various devices				5,0	000	XW2Z-RY500C
	Cables with Loose Wires	16 I/O points		2,0	000	XW2Z-RA200C
	XW2Z-RA⊡C		← → ← ─ ↓ L ─ →	5,0	000	XW2Z-RA500C
				1,0	000	XW2Z-R100C
	Cables with Connectors			1,5	500	XW2Z-R150C
ujitsu/Otax connectors 24 pins)	(1:1)	16 I/O points		2,0	000	XW2Z-R200C
(= · [·····)	XW2Z-R□C			3,0	000	XW2Z-R300C
				5,0	000	XW2Z-R500C
		32 input points 32 output points		(A) 1,000	(B) 750	XW2Z-RI100C-75
				(A) 1,500	(B) 1,250	XW2Z-RI150C-125
			(A)	(A) 2,000	(B) 1,750	XW2Z-RI200C-175
	Cables with Connectors			(A) 3,000	(B) 2,750	XW2Z-RI300C-275
ujitsu/Otax connectors	(1:2) XW2Z-RI□C-□ XW2Z-RO□C-□			(A) 5,000	(B) 4,750	XW2Z-RI500C-475
40 pins)				(A) 1,000	(B) 750	XW2Z-RO100C-75
				(A) 1,500	(B) 1,250	XW2Z-RO150C-125
			Straight length (without bends)	(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
			(A)	(A) (B) 1,500 1,2	(C) 50 1,000	XW2Z-R150C-125-100
Fujitsu/Otax connectors (56 pins)	Cables with Connectors (1:3) XW2Z-R□C-□-□	48 I/O points		(A) (B) 2,000 1,7	(C) 50 1,500	XW2Z-R200C-175-150
			CC) CC) Straight length (without bends)	(A) (B) 3,000 2,75	(C) 50 2,500	XW2Z-R300C-275-250
	Cables with Connectors			2	50	XW2Z-RI25C
1 11 (20)	(1:1)			50	00	XW2Z-RI50C
MIL connectors (20 pins)	XW2Z-RI□C	16 I/O points		2	50	XW2Z-RO25C
	XW2Z-RO□C		∢ ──── L ───→	50	00	XW2Z-RO50C

Туре	Name	I/O Classification	Appearance	Cable leng	gth L (mm)	Models
				(A) 500	(B) 250	XW2Z-RO50-25-D1
				(A) 750	(B) 500	XW2Z-R075-50-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 side B side	(A) 3,000	(B) 2,750	XW2Z-RO300-275-D1
	Cables with Connectors		Device end I/O Relay Terminal	(A) 5,000	(B) 4,750	XW2Z-RO500-475-D1
	(1:2)	32 I/O points	(A)	(A) 500	(B) 250	XW2Z-RI50-25-D1
/IL connectors (40 pins)	XW2Z-RO□-□-D1,	of we benne		(A) 750	(B) 500	XW2Z-RI75-50-D1
	XW2Z-RI□-□-D1, XW2Z-RI□-□-D2,			(A) 1,000	(B) 750	XW2Z-RI100-75-D1
	XW2Z-RM□-□-D1 *1,			(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
	XW2Z-RM□-□-D2 *1		(B)	(A) 2,000	(B) 1,750	XW2Z-RI200-175-D1
			Straight length (without bends)	(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		(A) 500	(B) 250	XW2Z-RM50-25-D1
		(32 I/O points)		(A) 750	(B) 500	XW2Z-RM75-50-D1
	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) →	(A) 1,500	(B) 1,250	XW2Z-RI150C-125-MN
			(120) (120) (B) Straight length (without bends)	(A) 2,000	(B) 1,750	XW2Z-RI200C-175-MN
litsubishi Electric PLCs with				(A) 3,000	(B) 2,750	XW2Z-RI300C-275-MN
2-point connectors (1:2) *2		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
				500 1,000 2,000		XW2Z-R050C-SCH-A
						XW2Z-R100C-SCH-A
abaaidar Elaatria DL Cawith		32 input points				XW2Z-R200C-SCH-A
chneider Electric PLCs with 2-point connectors (1:2)				3,000		XW2Z-R300C-SCH-A
pplicable models:				5,000		XW2Z-R500C-SCH-A
or inputs:				500		XW2Z-R050C-SCH-B
40 DDI 353 00 or outputs:				1,000		XW2Z-R100C-SCH-B
40 DDO 353 00		32 output points	← (B) →	2,000		XW2Z-R200C-SCH-B
			Straight length (without bends)	3,000 5,000		XW2Z-R300C-SCH-B
	Schneider Electric PLC Connecting Cables					XW2Z-R500C-SCH-B
				5	00	XW2Z-R050C-SCH-C
	XW2Z-R□C-SCH-□			1,0	000	XW2Z-R100C-SCH-C
Schneider Electric PLCs with		16 input points		2,		XW2Z-R200C-SCH-C
6-point connectors (1:1)			·	3,0	000	XW2Z-R300C-SCH-C
pplicable models:				5,0	000	XW2Z-R500C-SCH-C
or inputs: MX DDI 1602				5	00	XW2Z-R050C-SCH-D
or outputs:			L → ►I	1,0	000	XW2Z-R100C-SCH-D
MX DDO 1602		16 output points		2,0	000	XW2Z-R200C-SCH-D
				3,0	000	XW2Z-R300C-SCH-D
			· · · ·	5 (000	XW2Z-R500C-SCH-D

Note: Contact for a cable length other than the above.
*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 19.

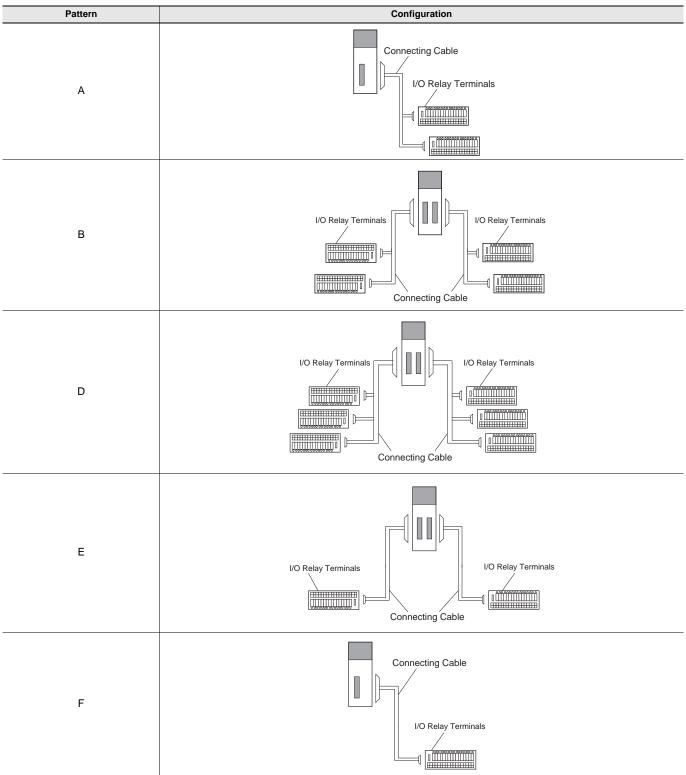
Туре	Name	I/O Classification	Appearance	Cable length L (mm)	Models	
				500	XW2Z-R050C-SIM-A	
			A side B side	1,000	XW2Z-R100C-SIM-A	
Siemens PLCs with		32 input points	Device end I/O Relay Terminal	2,000	XW2Z-R200C-SIM-A	
32-point connectors (1:2)			(A)	3,000	XW2Z-R300C-SIM-A	
Applicable models:				5,000	XW2Z-R500C-SIM-A	
For inputs: SES7 321-1BL00-0AA0				500	XW2Z-R050C-SIM-B	
For outputs:				1,000	XW2Z-R100C-SIM-B	
6ES7 322-1BL00-0AA0		32 output points	(B)	2,000	XW2Z-R200C-SIM-B	
			Straight length (without bends)	3,000	XW2Z-R300C-SIM-B	
	_				5,000	XW2Z-R500C-SIM-B
Siemens PLCs with		16 input points		500	XW2Z-R050C-SIM-C	
16-point connectors (1:1)	Siemens PLC Connecting			1,000	XW2Z-R100C-SIM-C	
Applicable models:	Cables			2,000	XW2Z-R200C-SIM-C	
For inputs:	XW2Z-R C-SIM-			3,000	XW2Z-R300C-SIM-C	
6ES7 321-1BH02-0AA0				5,000	XW2Z-R500C-SIM-C	
	1		(A)	500	XW2Z-R050C-SIM-D	
				1,000	XW2Z-R100C-SIM-D	
Siemens PLCs with		32 input points		2,000	XW2Z-R200C-SIM-D	
32-point connectors (1:2)				3,000	XW2Z-R300C-SIM-D	
Applicable models:				5,000	XW2Z-R500C-SIM-D	
For inputs: 6ES7 421-1BL-0AA0 For outputs:				500	XW2Z-R050C-SIM-E	
				1,000	XW2Z-R100C-SIM-E	
6ES7 422-1BL-0AA0		32 output points	l← (B) → l Straight length (without bends)	2,000	XW2Z-R200C-SIM-E	
			Graight length (without behus)	3,000	XW2Z-R300C-SIM-E	
				5,000	XW2Z-R500C-SIM-E	

Note: 1. Refer to Combinations of Connections starting on the next page.
2. For connector pin diagrams and cable colors, refer to the wiring diagrams starting on page 4 of *XW2Z-R Cables for I/O Relay Terminals* (Cat. No. G126).

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



List of Combinations with the OMRON PLC NX Series

NX I/O Units				Conne ction	XW2Z-R Cables			G70A-ZOC16 Relay Terminal Socket		
I/O capacity	Model	External connectors *2	Polarity	pattern	Specifications	Model *2	Quantity required	Specifications	Model	Quantity required
Input Unit	S									
16 inputs	NX-ID5142-5	1 MIL connector	NPN or PNP	F	1:1	XW2Z-RO□C	1			
32 inputs	NX-ID6142-5	1 MIL connector	NPN or PNP		1:2	XW2Z-RO -D1	1	_ Inputs *3		
	NX-ID6142-6	1 Fujitsu/Otax connector	NPN or PNP	A		XW2Z-RI C-	1			
Output Un	its									
16 outputs	NX-OD5121-5	1 MIL connector	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G70A-ZOC16-3	1
	NX-OD5256-5	1 MIL connector	PNP	Г		XW2Z-RO□C	1	PNP outputs	G70A-ZOC16-4	1
32 outputs	NX-OD6121-5	1 MIL connector	NPN	А	1:2	XW2Z-RO -D1	1	NPN outputs	G70A-ZOC16-3	2
	NX-OD6256-5	1 MIL connector	PNP			XW2Z-RO -D1	1	PNP outputs	G70A-ZOC16-4	2
32 outputs	NX-OD6121-6	1 Fujitsu/Otax connector	NPN			XW2Z-RO□C-□	1	NPN outputs	G70A-ZOC16-3	2
Mixed I/O	Units								·	
		2 Fujitsu/Otax	Outputs:					Inputs *3		
	NX-MD6121-6	connectors (1 for 16 inputs and 1 for 16 outputs) NI	NPN Inputs: NPN or PNP			XW2Z-R□C	2	NPN outputs	G70A-ZOC16-3	1
16 inputs		X-MD6121-5 2 MIL connectors 0 Outputs: (1 for 16 inputs and 1 for 16 outputs) NPN inputs: NPN or PNP				XW2Z-RO□C	1	Inputs *3		-1
and 16 outputs	NX-MD6121-5		E	1:1	XW2Z-RO□C	1	NPN outputs	G70A-ZOC16-3	1	
		K-MD6256-5 2 MIL connectors Outputs: (1 for 16 inputs and 1 for 16 outputs) Inputs: NPN or PNP		1		XW2Z-RO□C	1	Inputs *3		1
	NX-MD6256-5				XW2Z-RI□C	1	PNP outputs	G70A-ZOC16-4	1	

***1.** For details on the types of connectors, refer to pages 12 and 13. ***2.** The box □ is replaced by the cable length. ***3.** Either NPN inputs or PNP inputs can be used.

List of Combinations with the OMRON PLC CJ Series

Model its J1W-ID231 J1W-ID232 J1W-ID233 J1W-ID261 J1W-ID262 utput Units J1W-OD231	External connectors *1 1 Fujitsu/Otax connector 1 MIL connector 1 MIL connector 2 Fujitsu/Otax connectors (2, 32-point connectors) 2 MIL connectors (2, 32-point connectors)	Polarity NPN NPN NPN NPN NPN NPN	ction pattern A B	Specifications	Model *2 XW2Z-RI C- XW2Z-ROD1 XW2Z-ROD1	Quantity required	Specifications	Model	Quantity required
J1W-ID231 J1W-ID232 J1W-ID233 J1W-ID261 J1W-ID262 utput Units	connector 1 MIL connector 1 MIL connector 2 Fujitsu/Otax connectors (2, 32-point connectors) 2 MIL connectors (2, 32-point connectors)	NPN NPN NPN		1:2	XW2Z-RO□-□-D1	1			
J1W-ID232 J1W-ID233 J1W-ID261 J1W-ID262 utput Units	connector 1 MIL connector 1 MIL connector 2 Fujitsu/Otax connectors (2, 32-point connectors) 2 MIL connectors (2, 32-point connectors)	NPN NPN NPN		1:2	XW2Z-RO□-□-D1	1			
J1W-ID233 J1W-ID261 J1W-ID262 utput Units	1 MIL connector 2 Fujitsu/Otax connectors (2, 32-point connectors) 2 MIL connectors (2, 32-point connectors)	NPN NPN		1:2					
J1W-ID261 J1W-ID262 utput Units	2 Fujitsu/Otax connectors (2, 32-point connectors) 2 MIL connectors (2, 32-point connectors)	NPN	В	1:2	XW2Z-RO -D1	1			
J1W-ID262 utput Units	connectors (2, 32-point connectors) 2 MIL connectors (2, 32-point connectors)		в	1:2		1	- Inputs *3		
utput Units	(2, 32-point connectors)	NPN		1:2	XW2Z-RI C-	2			
-					XW2Z-RO	2			
J1W-OD231									
	1 Fujitsu/Otax connector	Sinking (NPN)	- A	1:2	XW2Z-RO□C-□	1	- NPN outputs	G70A-ZOC16-3	2
J1W-OD233	1 MIL connector	Sinking (NPN)			XW2Z-RO	1		G70A-ZOC16-3	
J1W-OD232	1 MIL connector	Sourcing (PNP)			XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	2
J1W-OD234	1 MIL connector	Sinking (NPN)			XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-3	2
J1W-OD261	2 Fujitsu/Otax connectors (2, 32-point connectors)	Sinking (NPN)	В		XW2Z-RO□C-□	2	NPN outputs	G70A-ZOC16-3	2
J1W-OD262	2 MIL connectors (2, 32-point connectors)	Sourcing (PNP)			XW2Z-RO□-□-D1	2	PNP outputs	G70A-ZOC16-4	2
J1W-OD263	2 MIL connectors (2, 32-point connectors)	Sinking (NPN)			XW2Z-RO	2	NPN outputs	G70A-ZOC16-3	2
nsistor Outpu	it Units								
J1W-MD231	2 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)	Sinking (NPN)			XW2Z-R⊡C	2	Inputs *3 NPN outputs	 G70A-ZOC16-3	1
	2 MIL connectors	Sinking	F	1.1	XW2Z-RO□C	1	Inputs *3		-
J1W-MD233	(1 for 16 inputs and 1 for 16 outputs)	(NPN)	E	1:1	XW2Z-RO□C	1	NPN outputs	G70A-ZOC16-3	1
o	2 MIL connectors	Sourcing			XW2Z-RO□C	1	Inputs *3		
J1VV-MD232	(1 for 16 inputs and 1 for 16 outputs)	(PNP)			XW2Z-RI□C	1	PNP outputs	G70A-ZOC16-4	1
J1W-MD261	2 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)	в	1:2	XW2Z-RIC-	1	Inputs *3	 G70A-ZOC16-3	1
J1W-MD263	2 MIL connectors (1 for 32 inputs and	Sinking	в		XW2Z-RO	1	Inputs *3		_l
	1W-OD234 1W-OD261 1W-OD262 1W-OD263 sistor Outpu 1W-MD231 1W-MD233 1W-MD232 1W-MD232	1W-OD2341 MIL connector1W-OD2612 Fujitsu/Otax connectors (2, 32-point connectors)1W-OD2622 MIL connectors (2, 32-point connectors)1W-OD2632 MIL connectors (2, 32-point connectors)1W-OD2632 MIL connectors (2, 32-point connectors)sistor Output Units2 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)1W-MD2332 MIL connectors (1 for 16 inputs and 1 for 16 outputs)1W-MD2332 MIL connectors (1 for 16 inputs and 1 for 16 outputs)1W-MD2342 MIL connectors (1 for 16 inputs and 1 for 16 outputs)1W-MD2352 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)1W-MD2612 Fujitsu/Otax connectors (1 for 32 outputs)	1W-OD2321 MIL connectorSourcing (PNP)1W-OD2341 MIL connectorSinking (NPN)1W-OD2341 MIL connectorSinking (NPN)1W-OD2612 Fujitsu/Otax connectors (2, 32-point connectors)Sinking (NPN)1W-OD2622 MIL connectors (2, 32-point connectors)Sourcing (PNP)1W-OD2632 MIL connectors (2, 32-point connectors)Sinking (PNP)1W-OD2632 MIL connectors (2, 32-point connectors)Sinking (NPN)1W-OD2632 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN)1W-MD2332 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN)1W-MD2322 MIL connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN)1W-MD2322 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sourcing (PNP)1W-MD2612 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)Sinking (NPN)1W-MD2632 MIL connectors (1 for 32 inputs and 1 for 32 inputs and (NPN)Sinking (NPN)	A1W-OD2321 MIL connectorSourcing (PNP)1W-OD2341 MIL connectorSinking (NPN)1W-OD2341 MIL connectorSinking (NPN)1W-OD2612 Fujitsu/Otax connectors (2, 32-point connectors)Sinking (NPN)1W-OD2622 MIL connectors (2, 32-point connectors)Sourcing (PNP)1W-OD2632 MIL connectors (2, 32-point connectors)Sourcing (NPN)1W-OD2632 MIL connectors (2, 32-point connectors)Sinking (NPN)1W-OD2632 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN)1W-MD2332 MIL connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN)1W-MD2322 MIL connectors (1 for 16 inputs and 1 for 16 outputs)Sourcing (PNP)1W-MD2322 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sourcing (PNP)1W-MD2612 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)Sinking (NPN)1W-MD2632 MIL connectors (1 for 32 inputs and 1 for 32 outputs)Sinking (NPN)	1W-OD2321 MIL connectorSourcing (PNP)A1W-OD2341 MIL connectorSinking (NPN)1:21W-OD2341 MIL connectorSinking (NPN)1:21W-OD2612 Fujitsu/Otax 	1W-OD2321 MIL connectorSourcing (PNP)A1W-OD2341 MIL connectorSinking (NPN)1:2XW2Z-ROD-11W-OD2612 Fujitsu/Otax connectors (2, 32-point connectors)Sinking (NPN)1:2XW2Z-ROD11W-OD2622 MIL connectors (2, 32-point connectors)Sourcing (PNP)BXW2Z-ROD11W-OD2632 MIL connectors (2, 32-point connectors)Sinking (NPN)XW2Z-ROD11W-OD2632 MIL connectors (2, 32-point connectors)Sinking (NPN)XW2Z-ROD11W-OD2632 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN)XW2Z-ROD11W-MD2332 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN)XW2Z-RO_C1W-MD2322 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sourcing (PNP)XW2Z-RO_C1W-MD2322 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sourcing (NPN)B1:11W-MD2332 Fujitsu/Otax connectors (1 for 32 inputs and 1 for 32 outputs)Sinking (NPN)KW2Z-RO_CXW2Z-RO_C1W-MD2632 MIL connectors (1 for 32 inputs and 1 for 32 inputs and (1 for 32 inputs and 	1W-OD2321 MIL connectorSourcing (PNP)A1W-OD2321 MIL connectorSinking (NPN)1:2 $XW2Z-ROD1$ 11W-OD2341 MIL connectorsSinking (NPN)1:2 $XW2Z-ROD1$ 11W-OD2612 Fujitsu/Otax connectorsSinking (NPN) $XW2Z-ROD1$ 21W-OD2622 MIL connectors (2, 32-point connectors)Sourcing (PNP)B $XW2Z-ROD1$ 21W-OD2632 MIL connectors (2, 32-point connectors)Sinking (NPN) $XW2Z-ROD1$ 21W-OD2632 MIL connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN) $XW2Z-ROD1$ 21W-MD2332 MIL connectors (1 for 16 inputs and 1 for 16 outputs)Sinking (NPN) $XW2Z-RO - C$ 11W-MD2322 MIL connectors (1 for 16 inputs and 1 for 16 outputs)Sourcing (PNP) $XW2Z-RO - C$ 11W-MD2312 Fujitsu/Otax connectors (1 for 16 inputs and 1 for 16 outputs)Sourcing (PNP) $XW2Z-RO - C$ 11W-MD2322 MIL connectors (1 for 32 inputs and 1	IW-OD232 1 MIL connector Sourcing (PNP) A 1W-OD234 1 MIL connector Sinking (NPN)	IW-OD232 1 MIL connector Sourcing (PNP) A 1W-OD234 1 MIL connector Sinking (NPN) A 1W-OD234 1 MIL connector Sinking (NPN) A 1W-OD234 1 MIL connector Sinking (NPN) A 1W-OD261 2 Fujitsu/Otax connectors (2, 32-point connectors) Sinking (NPN) A 1W-OD262 2 MIL connectors (2, 32-point connectors) Sourcing (NPN) B B 1W-OD263 2 MIL connectors (2, 32-point connectors) Sinking (NPN) B A XW2Z-RODI 1 NPN outputs G70A-ZOC16-3 3istor Output Units 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) Sinking (NPN) A XW2Z-RODI 2 NPN outputs G70A-ZOC16-3 1W-MD233 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) Sinking (NPN) XW2Z-RO_C 1 Inputs *3 1W-MD232 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) Sinking (PNP) A XW2Z-RO_C 1 Inputs *3 1W-MD232 2 MIL connectors (1 for 16 inputs and 1 for 16 outputs) S

***1.** For details on the types of connectors, refer to pages 12 and 13. ***2.** The box □ is replaced by the cable length. ***3.** Either NPN inputs or PNP inputs can be used.

List of Combinations with the OMRON PLC CS Series

CJ1W I/O Units				Conne	XW2Z-R Cables			G70A-ZOC16 Relay Terminal Socket		
I/O capacity	Model	External connectors	Polarity	pattern	Specifications	Model *1	Quantity required	Specifications	Model	Quantity required
DC Input U	Jnits	L				l		1	1	
32 inputs	CS1W-ID231	1 Fujitsu/Otax connector	NPN	Α		XW2Z-RI□C-□	1			
64 inputs	CS1W-ID261	2 Fujitsu/Otax connectors (2, 32-point connectors)	NPN	В	1:2	XW2Z-RI C-	2	Inputs *2		
96 inputs	CS1W-ID291	2 Fujitsu/Otax connectors (2, 48-point connectors)	NPN	D	1:3	XW2Z-R□C-□-□	2			
Transistor	Output Units									
32 outputs	CS1W-OD231	1 Fujitsu/Otax connector	Sinking (NPN)	- A - B	- 1:2	XW2Z-RO C-	1	NPN outputs	G70A-ZOC16-3	2
	CS1W-OD232	1 Fujitsu/Otax connector	Sourcing (PNP)			XW2Z-RO□C-□	1	PNP outputs	G70A-ZOC16-4	2
64 outputs	CS1W-OD261	2 Fujitsu/Otax connectors (2, 32-point connectors)	Sinking (NPN)			XW2Z-RO□C-□	2	NPN outputs	G70A-ZOC16-3	4
	CS1W-OD262	2 Fujitsu/Otax connectors (2, 32-point connectors)	Sourcing (PNP)			XW2Z-RO C-	2	PNP outputs	G70A-ZOC16-4	4
96 outputs	CS1W-OD291	2 Fujitsu/Otax connectors (2, 48-point connectors)	Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	2	NPN outputs	G70A-ZOC16-3	6
DC Input/1	Fransistor Outp	ut Units								
	CS1W-	2 Fujitsu/Otax connectors	Sinking			XW2Z-RI□C-□	1	Inputs *2		
32 inputs and 32	MD261	(1 for 32 inputs and 1 for 32 outputs)	(NPN)			XW2Z-RO□C-□	1	NPN outputs	G70A-ZOC16-3	1
outputs			Sourcing	В	1:2	XW2Z-RI□C-□	1	Inputs *2		
		(PNP)			XW2Z-RO□C-□	1	PNP outputs	G70A-ZOC16-4	2	
48 inputs	CS1W- MD291	2 Fujitsu/Otax connectors (1 for 48 inputs and 1 for 48 outputs)	Sinking (NPN)	- D	1:3	XW2Z-R□C-□-□	_	Inputs *2		
							2	NPN outputs	G70A-ZOC16-3	3
and 48 outputs	CS1W-	2 Fujitsu/Otax connectors (1 for 48 inputs and 1 for 48 outputs)	Sourcing (PNP)			XW2Z-R□C-□-□	1	Inputs *2		
	MD292									

***1.** The box □ is replaced by the cable length. ***2.** Either NPN inputs or PNP inputs can be used.

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□□H, CS1H-CPU□□H	W339	Programmable Controllers Operation Manual
CJ1	CJ1H-CPU□□H-R, CJ1G/H-CPU□□H, CJ1G- CPU□□P, 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/C	Unit		Conne		XW2Z-R Cables	G70A-ZOC16 Relay Terminal Socket				
I/O capacity	Model	External connectors	Polarity	ction pattern	Specifications	Model *	Quantity required	Specifications	Model	Quantity required	
Input Unit	S	1		1							
	LX41C4			А		XW2Z-RI	1				
32 inputs	QX41/QX41-S1/ QX41-S2	1 Fujitsu/Otax connector									
	QX71										
	RX41C4	-	NPN or								
	LX42C4		PNP		1:2	XW2Z-RIDDD-DDMN					
	QX42/QX42-S1	2 Fujitsu/Otax									
64 inputs	QX82/QX82-S1	connectors		В			2				
	RX42C4	-									
Output Un	its	1									
	LY41NT1P										
	QY41P	1 Fujitsu/Otax connector	NPN			XW2Z-RO		NPN outputs	G70A-ZOC16-3		
32 outputs	QY71						1			2	
	RY41NT2P			А							
	LY41PT1P	1 Fujitsu/Otax	PNP	-		XW2Z-RO		PNP outputs G7			
	RY41PT1P						1		G70A-ZOC16-4	2	
	RY41PT2H	connector			1:2					_	
	LY42NT1P		NPN		1.2	XW2Z-RO	2	NPN outputs G70A-Z0			
	RY42NT2P	2 Fujitsu/Otax							G70A-ZOC16-3	4	
~ ~	QY42P	connectors							010/200100		
64 outputs	LY42PT1P	2 Fujitsu/Otax connectors		В		XW2Z-RO		PNP outputs G70	G70A-ZOC16-4		
	RY42PT1P		PNP				2			4	
	QY82P										
Mixed I/O	i	1			1		1	1			
	RH42C4NT2P (Input side)	2 Fujitsu/Otax	NPN or PNP			XW2Z-RI	1				
	RH42C4NT2P (Output side)	connectors	NPN	-		XW2Z-RO	1	NPN outputs	G70A-ZOC16-3	2	
	QH42P (Input side)	2 Fujitsu/Otax	NPN or PNP			XW2Z-RI	1			-1	
	QH42P (Output side)	connectors	NPN	- B	1:2	XW2Z-RO	1	NPN outputs	G70A-ZOC16-3	2	
32 inputs	QX41Y41P (Input side)	2 Fujitsu/Otax	NPN or PNP			XW2Z-RI	1				
and 32 outputs	QX41Y41P (Output side)	connectors	NPN			XW2Z-RO	1	NPN outputs	G70A-ZOC16-3	2	
	LH42C4NT1P (Input side)	2 Fujitsu/Otax	NPN or PNP			XW2Z-RI	1			_!	
	LH42C4NT1P (Output side)	connectors	NPN			XW2Z-RO	1	NPN outputs	G70A-ZOC16-3	2	
	LH42C4PT1P (Input side)	2 Fujitsu/Otax	NPN or PNP			XW2Z-RI	1				
	LH42C4PT1P (Output side)	connectors	PNP			XW2Z-RO	1	PNP outputs	G70A-ZOC16-4	2	

Note: Cables that can be connected to the QX81, QX81-S2, and QY81P have not been prepared. ***** The box \Box is replaced by the cable length. For details on the types, refer to page 13.

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