Table of I/O Relay Terminal and connectable device combinations
G70V/G7TC/G70A/G70D

This catalogue shows a table of the patterns and combinations in which I/O relay terminals and connectable devices (PLC I/O units, DeviceNet units) can be connected.
For the detailed specifications and connection diagrams of each device, see the data sheet of the related product.

Connection type pattern

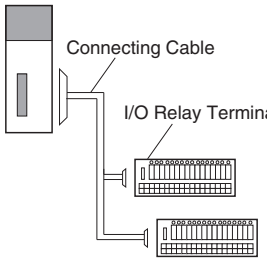
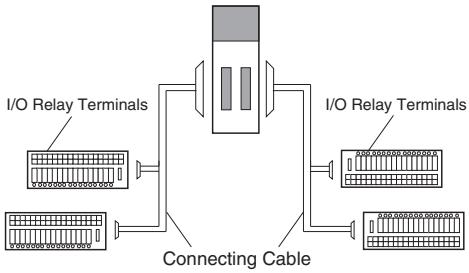
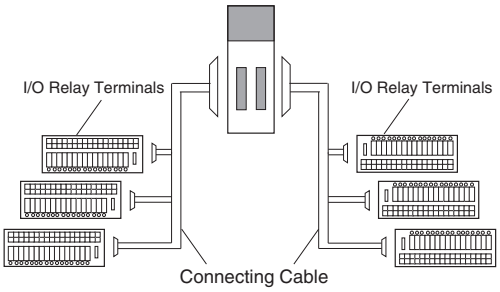
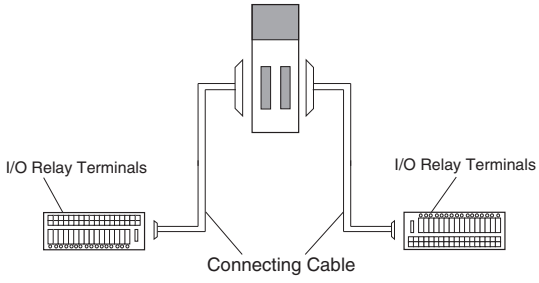
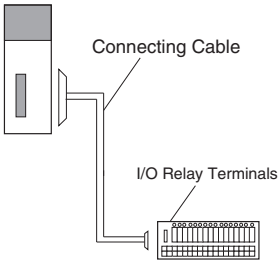
Pattern	Configuration
A	
B	
D	
E	
F	

Table of I/O Relay Terminal and connectable device combinations

Combinations with G70V

G70V
Combinations with the OMRON PLC NX Series

NX I/O Units				Connection pattern	XW2Z-R Cables			G70V I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	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	Inputs ✻2	G70V-SID16P(-1)(-C16)	1
32 inputs	NX-ID6142-5	1 MIL connector (40 p)	NPN or PNP	A	1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	NX-ID6142-6	1 Fujitsu connector (40 p)	NPN or PNP		1:2	XW2Z-RI□C-□	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
Output Units										
16 outputs	NX-OD5121-5	1 MIL connector (20 p)	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	1
	NX-OD5256-5	1 MIL connector (20 p)	PNP		1:1	XW2Z-RO□C	1	PNP outputs	G70V-SOC16P-1(-C4)	1
32 outputs	NX-OD6121-5	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	2
	NX-OD6256-5	1 MIL connector (40 p)	PNP		1:2	---	---	PNP outputs	---	---
	NX-OD6121-6	1 Fujitsu connector (40 p)	NPN		1:2	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
Mixed I/O Units										
16 inputs/ 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	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	1
			Outputs: NPN		1:1	XW2Z-R□C	2	NPN outputs	G70V-SOC16P(-C4)	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	Inputs ✻2	G70V-SID16P(-1)(-C16)	1
			Outputs: NPN		1:1	XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	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	Inputs ✻2	G70V-SID16P(-1)(-C16)	1
			Outputs: PNP		1:1	XW2Z-RI□C	1	PNP outputs	G70V-SOC16P-1(-C4)	1

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126).
✻2. Either NPN inputs or PNP inputs can be used.

G70V
Combinations with the OMRON PLC CJ Series

CJ1W I/O Units				Connection pattern	XW2Z-R Cables			G70V I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Input Units										
32 inputs	CJ1W-ID231	1 Fujitsu connector (40 p)	NPN	A	1:2	XW2Z-RI□C-□	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	CJ1W-ID232	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	CJ1W-ID233	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
64 inputs	CJ1W-ID261	2 Fujitsu connectors (40 p) (2, 32-point connectors)	NPN	B	1:2	XW2Z-RI□C-□	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	4
	CJ1W-ID262	2 MIL connectors (40 p) (2, 32-point connectors)	NPN		1:2	XW2Z-RO□-□-D1	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	4
Output Units										
32 outputs	CJ1W-OD231	1 Fujitsu connector (40 p)	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
	CJ1W-OD233	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	2
	CJ1W-OD232	1 MIL connector (40 p)	Sourcing (PNP)		1:2	---	---	PNP outputs	---	---
	CJ1W-OD234	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	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	G70V-SOC16P(-C4)	4
	CJ1W-OD262	2 MIL connectors (40 p) (2, 32-point connectors)	Sourcing (PNP)		1:2	XW2Z-RO□-□-D1	2	PNP outputs	G70V-SOC16P-1(-C4)	4
	CJ1W-OD263	2 MIL connectors (40 p) (2, 32-point connectors)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	2	NPN outputs	G70V-SOC16P(-C4)	4
Mixed I/O Units										
16 inputs/ 16 outputs	CJ1W-MD231	2 Fujitsu connectors (24 p) (1 for 16 inputs and 1 for 16 outputs)	Sinking (NPN)	E	1:1	XW2Z-R□C	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	1
					1:1	XW2Z-R□C	2	NPN outputs	G70V-SOC16P(-C4)	1
	CJ1W-MD233	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Sinking (NPN)		1:1	XW2Z-RO□C	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	1
					1:1	XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	1
	CJ1W-MD232	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Sourcing (PNP)		1:1	XW2Z-RO□C	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	1
					1:1	XW2Z-RI□C	1	PNP outputs	G70V-SOC16P-1(-C4)	1
32 inputs/ 32 outputs	CJ1W-MD261	2 Fujitsu connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)	B	1:2	XW2Z-RI□C-□	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
	CJ1W-MD263	2 MIL connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	2

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126).
✻2. Either NPN inputs or PNP inputs can be used.

Table of I/O Relay Terminal and connectable device combinations

G70V
Combinations with the OMRON PLC CS Series

CS1W I/O Units				Connection pattern	XW2Z-R Cables			G70V I/O Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Input Units DC Input Units										
32 inputs	CS1W-ID231	1 Fujitsu connector (40 p)	NPN	A	1:2	XW2Z-RI□C-□	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
64 inputs	CS1W-ID261	2 Fujitsu connectors (40 p) (2, 32-point connectors)	NPN	B	1:2	XW2Z-RI□C-□	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	4
96 inputs	CS1W-ID291	2 Fujitsu connectors (56 p) (2, 48-point connectors)	NPN	D	1:3	XW2Z-R□C-□-□	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	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	G70V-SOC16P(-C4)	2
	CS1W-OD232	1 Fujitsu connector (40 p)	Sourcing (PNP)		1:2	XW2Z-RO□C-□	1	PNP outputs	G70V-SOC16P-1(-C4)	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	G70V-SOC16P(-C4)	4
	CS1W-OD262	2 Fujitsu connectors (40 p) (2, 32-point connectors)	Sourcing (PNP)		1:2	XW2Z-RO□C-□	2	PNP outputs	G70V-SOC16P-1(-C4)	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	G70V-SOC16P(-C4)	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)	Sinking (NPN)	B	1:2	XW2Z-RI□C-□	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
	CS1W-MD262	2 Fujitsu connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Sourcing (PNP)		1:2	XW2Z-RI□C-□	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
					1:2	XW2Z-RO□C-□	1	PNP outputs	G70V-SOC16P-1(-C4)	2
48 inputs/ 48 outputs	CS1W-MD291	2 Fujitsu connectors (56 p) (1 for 48 inputs and 1 for 48 outputs)	Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	3
					1:3	XW2Z-R□C-□-□	2	NPN outputs	G70V-SOC16P(-C4)	3
	CS1W-MD292	2 Fujitsu connectors (56 p) (1 for 48 inputs and 1 for 48 outputs)	Sourcing (PNP)		1:3	XW2Z-R□C-□-□	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	3
					1:3	---	---	---	---	---

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻2. Either NPN inputs or PNP inputs can be used.

●To connect to the OMRON PLC I/O Units, check the manual for the destination PLC.

Series	Model	Manual No.	Manual
CJ2	CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□	W472	CJ Series CJ2H/CJ2M User's Manual Hardware
NJ	NJ501-□□□□	W500	NJ Series CPU Units User's Manual Hardware
NX	NX-ID□□□□, NX-IA□□□□, NX-OD□□□□, NX-OC□□□□, NX-MD□□□□	W521	NX Series Digital I/O Units User's Manual

G70V
Combinations with the Mitsubishi PLC MELSEC-L Series, MELSEC-Q Series, and MELSEC iQ-R Series

PLC I/O Units				Connection pattern	XW2Z-R Cables			G70V 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 (40 p)	NPN or PNP	A	1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	QX41/ QX41-S1/ QX41-S2									
	QX71									
	RX41C4									
64 inputs	LX42C4	2 Fujitsu connectors (40 p)		B	1:2	XW2Z-RI□□□-□□MN	2	Inputs ✻2	G70V-SID16P(-1)(-C16)	4
	QX42/ QX42-S1									
	QX82/ QX82-S1									
	RX42C4									
Output Units										
32 outputs	LY41NT1P	1 Fujitsu connector (40 p)	NPN	A	1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2
	QY41P									
	QY71									
	RY41NT2P									
	LY41PT1P	1 Fujitsu connector (40 p)	PNP		1:2	XW2Z-RO□□□-□□MN	1	PNP outputs	G70V-SOC16P-1(-C4)	2
	RY41PT1P									
	RY41PT2H									
64 outputs	LY42NT1P	2 Fujitsu connectors (40 p)	NPN	B	1:2	XW2Z-RO□□□-□□MN	2	NPN outputs	G70V-SOC16P(-C4)	4
	RY42NT2P									
	QY42P									
	LY42PT1P	2 Fujitsu connectors (40 p)	PNP		1:2	XW2Z-RO□□□-□□MN	2	PNP outputs	G70V-SOC16P-1(-C4)	4
	RY42PT1P									
	QY82P									
Mixed I/O Units										
32 inputs/ 32 outputs	RH42C4NT2P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP	B	1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	RH42C4NT2P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2
	QH42P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	QH42P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2
	QX41Y41P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	QX41Y41P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2
	LH42C4NT1P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	LH42C4NT1P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70V-SOC16P(-C4)	2
	LH42C4PT1P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G70V-SID16P(-1)(-C16)	2
	LH42C4PT1P (Outputs)		PNP		1:2	XW2Z-RO□□□-□□MN	1	PNP outputs	G70V-SOC16P-1(-C4)	2

Note: 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 type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻2. Either NPN inputs or PNP inputs can be used.

Table of I/O Relay Terminal and connectable device combinations

G70V
Combinations with the OMRON DeviceNet Slaves

DeviceNet Slaves				Connection pattern	XW2Z-R Cables			G70V I/O Relay Terminals		
I/O capacity	DRT2-□ML/B/BV,GT1-□ML				XW2Z-R			G70V		
	Model	External connectors	Polarity (Transistor)		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Smart Slave DRT2-series MIL connector terminal										
16 inputs	DRT2-ID16ML	1 MIL connector (20 p)	NPN	F	1:1	XW2Z-RI□C	1	NPN inputs	G70V-SID16P(-C16)	1
	DRT2-ID16ML-1	1 MIL connector (20 p)	PNP		1:1	XW2Z-RO□C	1	PNP inputs	G70V-SID16P-1(-C16)	1
16 outputs	DRT2-OD16ML	1 MIL connector (20 p)	NPN		1:1	XW2Z-RO□C	1	NPN outputs	G70V-SOC16P(-C4)	1
	DRT2-OD16ML-1	1 MIL connector (20 p)	PNP		1:1	XW2Z-RO□C	1	PNP outputs	G70V-SOC16P-1(-C4)	1
32 inputs	DRT2-ID32ML	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RI□-□-D1	1	NPN inputs	G70V-SID16P(-C16)	2
	DRT2-ID32ML-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP inputs	G70V-SID16P-1(-C16)	2
32 outputs	DRT2-OD32ML	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	2
	DRT2-OD32ML-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70V-SOC16P-1(-C4)	2
16 inputs/ 16 outputs	DRT2-MD32ML	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN inputs	G70V-SID16P(-C16)	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	1
	DRT2-MD32ML-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP inputs	G70V-SID16P-1(-C16)	1
					1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70V-SOC16P-1(-C4)	1
Smart Slave DRT2-series board terminal MIL connector type (Horizontal type)										
32 inputs	DRT2-ID32B	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RI□-□-D1	1	NPN inputs	G70V-SID16P(-C16)	2
	DRT2-ID32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP inputs	G70V-SID16P-1(-C16)	2
32 outputs	DRT2-OD32B	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	2
	DRT2-OD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70V-SOC16P-1(-C4)	2
16 inputs/ 16 outputs	DRT2-MD32B	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN inputs	G70V-SID16P(-C16)	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	1
	DRT2-MD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP inputs	G70V-SID16P-1(-C16)	1
					1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70V-SOC16P-1(-C4)	1
Smart Slave DRT2-series board terminal MIL connector type (Vertical type)										
32 inputs	DRT2-ID32BV	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RI□-□-D1	1	NPN inputs	G70V-SID16P(-C16)	2
	DRT2-ID32BV1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP inputs	G70V-SID16P-1(-C16)	2
32 outputs	DRT2-OD32BV	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	2
	DRT2-OD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70V-SOC16P-1(-C4)	2
16 inputs/ 16 outputs	DRT2-MD32BV	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN inputs	G70V-SID16P(-C16)	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70V-SOC16P(-C4)	1
	DRT2-MD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP inputs	G70V-SID16P-1(-C16)	1
					1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70V-SOC16P-1(-C4)	1

✻**1.** The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

Table of I/O Relay Terminal and connectable device combinations

DeviceNet Slaves				Connection pattern	XW2Z-R Cables			G70V I/O Relay Terminals		
I/O capacity	DRT2-□ML/B/BV,GT1-□ML				XW2Z-R			G70V		
	Model	External connectors	Polarity (Transistor)		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Multiple I/O terminal connector type digital I/O unit (Fujitsu connector)										
16 inputs	GT1-ID16ML	1 Fujitsu connector (24 p)	NPN	F	1:1	XW2Z-R□C	1	NPN inputs	G70V-SID16P(-C16)	1
	GT1-ID16ML-1	1 Fujitsu connector (24 p)	PNP		1:1	XW2Z-R□C	1	PNP inputs	G70V-SID16P-1(-C16)	1
16 outputs	GT1-OD16ML	1 Fujitsu connector (24 p)	NPN		1:1	XW2Z-R□C	1	NPN outputs	G70V-SOC16P(-C4)	1
	GT1-OD16ML-1	1 Fujitsu connector (24 p)	PNP		1:1	XW2Z-R□C	1	PNP outputs	G70V-SOC16P-1	1
Multiple I/O terminal multiple connector type digital I/O unit (Fujitsu connector)										
32 inputs	GT1-ID32ML	1 Fujitsu connector (40 p)	NPN	F	1:2	XW2Z-RI□C-□	1	NPN inputs	G70V-SID16P(-C16)	2
	GT1-ID32ML-1	1 Fujitsu connector (40 p)	PNP		1:2	XW2Z-RI□C-□	1	PNP inputs	G70V-SID16P-1(-C16)	2
32 outputs	GT1-OD32ML	1 Fujitsu connector (40 p)	NPN		1:2	XW2Z-RO□C-□	1	NPN outputs	G70V-SOC16P(-C4)	2
	GT1-OD32ML-1	1 Fujitsu connector (40 p)	PNP		1:2	XW2Z-RO□C-□	1	PNP outputs	G70V-SOC16P-1(-C4)	2

✻**1.** The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

Table of I/O Relay Terminal and connectable device combinations

Combinations with G7TC

G7TC
Combinations with the OMRON PLC NX Series

NX I/O Units				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										
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 Fujitsu connector (40 p)	NPN or PNP		1:2	XW2Z-RI□C-□	1	NPN Inputs	G7TC-IA16/ID16	2
Output Units										
16 outputs	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
	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/ 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

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

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

G7TC
Combinations with the OMRON PLC CJ Series

CJ1W I/O Units				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	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/ 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
			Outputs: 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

Note: The G7TC-OC08 8-output type is also available.
✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

Table of I/O Relay Terminal and connectable device combinations

G7TC
Combinations with the OMRON PLC CS Series

CS1W I/O Units				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	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

Note: The G7TC-OC08 8-output type is also available.
✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

●To connect to the OMRON PLC I/O Units, check the manual for the destination PLC.

Series	Model	Manual No.	Manual
CJ2	CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□	W472	CJ Series CJ2H/CJ2M User's Manual Hardware
NJ	NJ501-□□□□	W500	NJ Series CPU Units User's Manual Hardware
NX	NX-ID□□□□, NX-IA□□□□, NX-OD□□□□, NX-OC□□□□, NX-MD□□□□	W521	NX Series Digital I/O Units User's Manual

G7TC

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

PLC I/O Units				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 (40 p)	NPN or PNP	A	1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G7TC-ID16/IA16	2
	QX41/ QX41-S1/ QX41-S2									
	QX71									
	RX41C4									
64 inputs	LX42C4	2 Fujitsu connectors (40 p)		B	1:2	XW2Z-RI□□□-□□MN	2	Inputs ✻2	G7TC-ID16/IA16	4
	QX42/ QX42-S1									
	QX82/ QX82-S1									
	RX42C4									
Output Units										
32 outputs	LY41NT1P	1 Fujitsu connector (40 p)	NPN	A	1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	QY41P									
	QY71									
	RY41NT2P									
	LY41PT1P	1 Fujitsu connector (40 p)	PNP		1:2	XW2Z-RO□□□-□□MN	1	---	---	---
	RY41PT1P									
	RY41PT2H									
64 outputs	LY42NT1P	2 Fujitsu connectors (40 p)	NPN	B	1:2	XW2Z-RO□□□-□□MN	2	NPN outputs	G7TC-OC16	4
	RY42NT2P									
	QY42P									
	LY42PT1P	2 Fujitsu connectors (40 p)	PNP		1:2	XW2Z-RO□□□-□□MN	2	---	---	---
	RY42PT1P									
	QY82P									
Mixed I/O Units										
32 inputs/ 32 outputs	RH42C4NT2P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP	B	1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G7TC-ID16/IA16	2
	RH42C4NT2P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	QH42P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G7TC-ID16/IA16	2
	QH42P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	QX41Y41P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G7TC-ID16/IA16	2
	QX41Y41P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	LH42C4NT1P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G7TC-ID16/IA16	2
	LH42C4NT1P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G7TC-OC16	2
	LH42C4PT1P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	Inputs ✻2	G7TC-ID16/IA16	2
	LH42C4PT1P (Outputs)		PNP		1:2	XW2Z-RO□□□-□□MN	1	---	---	---

Note: 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 type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻2. Either NPN inputs or PNP inputs can be used.

Table of I/O Relay Terminal and connectable device combinations

G7TC
Combinations with the OMRON DeviceNet Slaves

DeviceNet Slaves				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 unit Smart Slave DRT2-series MIL connector terminal										
16 inputs	DRT2-ID16ML	1 MIL connectors (20 p)	NPN	F	1:1	XW2Z-RI□C	1	NPN inputs	G7TC-IA16/ID16	1
	DRT2-ID16ML-1	1 MIL connectors (20 p)	PNP		---	---	---	PNP inputs	No connectable models	
16 outputs	DRT2-OD16ML	1 MIL connectors (20 p)	NPN		1:1	XW2Z-RO□C	1	NPN outputs	G7TC-OC16	1
	DRT2-OD16ML-1	1 MIL connectors (20 p)	PNP		1:1	XW2Z-RI□C	1	PNP outputs	G7TC-OC16-1	1
32 inputs	DRT2-ID32ML	1 MIL connectors (40 p)	NPN	A	1:2	XW2Z-RI□-□-D1	1	NPN inputs	G7TC-IA16/ID16	2
	DRT2-ID32ML-1	1 MIL connectors (40 p)	PNP		---	---	---	PNP inputs	No connectable models	
32 outputs	DRT2-OD32ML	1 MIL connectors (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G7TC-OC16	2
	DRT2-OD32ML-1	1 MIL connectors (40 p)	PNP		1:2	XW2Z-RI□-□-D1	1	PNP outputs	G7TC-OC16-1	2
16 inputs/ 16 outputs	DRT2-MD32ML	1 MIL connectors (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN inputs	G7TC-IA16/ID16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G7TC-OC16	1
	DRT2-MD32ML-1	1 MIL connectors (40 p)	PNP		1:2	XW2Z-RI□-□-D1	1	PNP inputs	No connectable models	
					1:2	XW2Z-RI□-□-D1	1	PNP outputs	G7TC-OC16-1	1
Smart Slave DRT2-series board terminal MIL connector type (Horizontal type)										
32 inputs	DRT2-ID32B	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RI□-□-D1	1	NPN inputs	G7TC-IA16/ID16	2
	DRT2-ID32B-1	1 MIL connector (40 p)	PNP		---	---	---	PNP inputs	No connectable models	
32 outputs	DRT2-OD32B	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G7TC-OC16	2
	DRT2-OD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RI□-□-D1	1	PNP outputs	G7TC-OC16-1	2
16 inputs/ 16 outputs	DRT2-MD32B	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN inputs	G7TC-IA16/ID16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G7TC-OC16	1
	DRT2-MD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RI□-□-D1	1	PNP inputs	No connectable models	
					1:2	XW2Z-RI□-□-D1	1	PNP outputs	G7TC-OC16-1	1

Note: The G7TC-OC08 8-output type is also available.
✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

Table of I/O Relay Terminal and connectable device combinations

DeviceNet Slaves				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
Smart Slave DRT2-series board terminal MIL connector type (Vertical type)										
32 inputs	DRT2-ID32BV	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RI□-□-D1	1	NPN inputs	G7TC-IA16/ID16	2
	DRT2-ID32BV-1	1 MIL connector (40 p)	PNP		---	---	---	PNP inputs	No connectable models	
32 outputs	DRT2-OD32BV	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G7TC-OC16	2
	DRT2-OD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RI□-□-D1	1	PNP outputs	G7TC-OC16-1	2
16 inputs/ 16 outputs	DRT2-MD32BV	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN inputs	G7TC-IA16/ID16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G7TC-OC16	1
	DRT2-MD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RI□-□-D1	1	PNP inputs	No connectable models	
					1:2	XW2Z-RI□-□-D1	1	PNP outputs	G7TC-OC16-1	1
Multiple I/O terminal connector type digital I/O unit (Fujitsu connector)										
16 inputs	GT1-ID16ML	1 Fujitsu connector (24 p)	NPN	F	1:1	XW2Z-R□C	1	NPN inputs	G7TC-IA16/ID16	1
	GT1-ID16ML-1	1 Fujitsu connector (24 p)	PNP		---	---	---	PNP inputs	No connectable models	
16 outputs	GT1-OD16ML	1 Fujitsu connector (24 p)	NPN		1:1	XW2Z-R□C	1	NPN outputs	G7TC-OC16	1
	GT1-OD16ML-1	1 Fujitsu connector (24 p)	PNP		1:1	---	1	PNP outputs	G7TC-OC16-1	1
Multiple I/O terminal multiple connector type digital I/O unit (Fujitsu connector)										
32 inputs	GT1-ID32ML	1 Fujitsu connector (24 p)	NPN	F	1:2	XW2Z-RI□C-□	1	NPN inputs	G7TC-IA16/ID16	2
	GT1-ID32ML-1	1 Fujitsu connector (24 p)	PNP		---	---	---	PNP inputs	No connectable models	
32 outputs	GT1-OD32ML	1 Fujitsu connector (24 p)	NPN		1:2	XW2Z-RO□C-□	1	NPN outputs	G7TC-OC16	2
	GT1-OD32ML-1	1 Fujitsu connector (24 p)	PNP		1:2	---	1	PNP outputs	G7TC-OC16-1	2

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

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

Table of I/O Relay Terminal and connectable device combinations

Combinations with G70A

G70A (Socket types)
Combinations with the OMRON PLC NX Series

NX I/O Units				Connection pattern	XW2Z-R Cables			G70A-ZOC16 I/O Terminal Sockets		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	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	Inputs ✻2	---	---
32 inputs	NX-ID6142-5	1 MIL connector (40 p)	NPN or PNP	A	1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	---	---
	NX-ID6142-6	1 Fujitsu connector (40p)	NPN or PNP		1:2	XW2Z-RI□C-□	1	Inputs ✻2	---	---
Output Units										
16 outputs	NX-OD5121-5	1 MIL connector (20 p)	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G70A-ZOC16-3	1
	NX-OD5256-5	1 MIL connector (20 p)	PNP		1:1	XW2Z-RO□C	1	PNP outputs	G70A-ZOC16-4	1
32 outputs	NX-OD6121-5	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-3	2
	NX-OD6256-5	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	2
	NX-OD6121-6	1 Fujitsu connector (40 p)	NPN		1:2	XW2Z-RO□C-□	1	NPN outputs	G70A-ZOC16-3	2
Mixed I/O Units										
16 inputs/ 16 outputs	NX-MD6121-6	2 Fujitsu connectors (24 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: NPN or PNP Outputs: NPN	E	1:1	XW2Z-R□C	2	Inputs ✻2	---	---
					1:1	XW2Z-R□C	2	NPN outputs	G70A-ZOC16-3	1
	NX-MD6121-5	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: NPN or PNP Outputs: NPN		1:1	XW2Z-RO□C	1	Inputs ✻2	---	---
					1:1	XW2Z-RO□C	1	NPN outputs	G70A-ZOC16-3	1
	NX-MD6256-5	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Inputs: NPN or PNP Outputs: PNP		1:1	XW2Z-RO□C	1	Inputs ✻2	---	---
					1:1	XW2Z-RI□C	1	PNP outputs	G70A-ZOC16-4	1

Note: On the G70A I/O terminal socket, the mounted relay is an option.
✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126).
✻2. Either NPN inputs or PNP inputs can be used.

G70A (Socket types)
Combinations with the OMRON PLC CJ Series

CJ1W I/O Units				Connection pattern	XW2Z-R Cables			G70A-ZOC16 I/O Terminal Sockets		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Input Units										
32 inputs	CJ1W-ID231	1 Fujitsu connector (40p)	NPN	A	1:2	XW2Z-RI□C-□	1	Inputs ✻2	---	---
	CJ1W-ID232	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	---	---
	CJ1W-ID233	1 MIL connector (40 p)	NPN		1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	---	---
64 inputs	CJ1W-ID261	2 Fujitsu connectors (40p) (2, 32-point connectors)	NPN	B	1:2	XW2Z-RI□C-□	2	Inputs ✻2	---	---
	CJ1W-ID262	2 MIL connectors (40 p) (2, 32-point connectors)	NPN		1:2	XW2Z-RO□-□-D1	2	Inputs ✻2	---	---
Output Units										
32 outputs	CJ1W-OD231	1 Fujitsu connector (40p)	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G70A-ZOC16-3	2
	CJ1W-OD233	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-3	2
	CJ1W-OD232	1 MIL connector (40 p)	Sourcing (PNP)		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	2
	CJ1W-OD234	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-3	2
64 outputs	CJ1W-OD261	2 Fujitsu connectors (40p) (2, 32-point connectors)	Sinking (NPN)	B	1:2	XW2Z-RO□C-□	2	NPN outputs	G70A-ZOC16-3	4
	CJ1W-OD262	2 MIL connectors (40 p) (2, 32-point connectors)	Sourcing (PNP)		1:2	XW2Z-RO□-□-D1	2	PNP outputs	G70A-ZOC16-4	4
	CJ1W-OD263	2 MIL connectors (40 p) (2, 32-point connectors)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	2	NPN outputs	G70A-ZOC16-3	4
Mixed I/O Units										
16 inputs/ 16 outputs	CJ1W-MD231	2 Fujitsu connectors (24 p) (1 for 16 inputs and 1 for 16 outputs)	Sinking (NPN)	E	1:1	XW2Z-R□C	2	Inputs ✻2	---	---
					1:1	XW2Z-R□C	2	NPN outputs	G70A-ZOC16-3	1
	CJ1W-MD233	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Sinking (NPN)		1:1	XW2Z-RO□C	1	Inputs ✻2	---	---
					1:1	XW2Z-RO□C	1	NPN outputs	G70A-ZOC16-3	1
	CJ1W-MD232	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Sourcing (PNP)		1:1	XW2Z-RO□C	1	Inputs ✻2	---	---
					1:1	XW2Z-RI□C	1	PNP outputs	G70A-ZOC16-4	1
32 inputs/ 32 outputs	CJ1W-MD261	2 Fujitsu connectors (40p) (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)	B	1:2	XW2Z-RI□C-□	1	Inputs ✻2	---	---
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70A-ZOC16-3	1
	CJ1W-MD263	2 MIL connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	Inputs ✻2	---	---
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-4	2

Note: On the G70A I/O terminal socket, the mounted relay is an option.
✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126).
✻2. Either NPN inputs or PNP inputs can be used.

Table of I/O Relay Terminal and connectable device combinations

G70A (Socket types)
Combinations with the OMRON PLC CS Series

CS1W I/O Units				Connection pattern	XW2Z-R Cables			G70A-ZOC16 I/O Terminal Sockets		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Input Units DC Input Units										
32 inputs	CS1W-ID231	1 Fujitsu connector (40 p)	NPN	A	1:2	XW2Z-RI□C-□	1	Inputs ✻2	---	---
64 inputs	CS1W-ID261	2 Fujitsu connectors (40 p) (2, 32-point connectors)	NPN	B	1:2	XW2Z-RI□C-□	2	Inputs ✻2	---	---
96 inputs	CS1W-ID291	2 Fujitsu connectors (56 p) (2, 48-point connectors)	NPN	D	1:3	XW2Z-R□C-□-□	2	Inputs ✻2	---	---
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	G70A-ZOC16-3	2
	CS1W-OD232	1 Fujitsu connector (40 p)	Sourcing (PNP)		1:2	XW2Z-RO□C-□	1	PNP outputs	G70A-ZOC16-4	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	G70A-ZOC16-3	4
	CS1W-OD262	2 Fujitsu connectors (40 p) (2, 32-point connectors)	Sourcing (PNP)		1:2	XW2Z-RO□C-□	2	PNP outputs	G70A-ZOC16-4	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	G70A-ZOC16-3	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)	Sinking (NPN)	B	1:2	XW2Z-RI□C-□	1	Inputs ✻2	---	---
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70A-ZOC16-3	1
	CS1W-MD262	2 Fujitsu connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Sourcing (PNP)		1:2	XW2Z-RI□C-□	1	Inputs ✻2	---	---
					1:2	XW2Z-RO□C-□	1	PNP outputs	G70A-ZOC16-4	2
48 inputs/ 48 outputs	CS1W-MD291	2 Fujitsu connectors (56 p) (1 for 48 inputs and 1 for 48 outputs)	Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	2	Inputs ✻2	---	---
					1:3	XW2Z-R□C-□-□	2	NPN outputs	G70A-ZOC16-3	3
	CS1W-MD292	2 Fujitsu connectors (56 p) (1 for 48 inputs and 1 for 48 outputs)	Sourcing (PNP)		1:3	XW2Z-R□C-□-□	1	Inputs ✻2	---	---
					1:3	---	---	---	---	---

Note: On the G70A I/O terminal socket, the mounted relay is an option.
✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻2. Either NPN inputs or PNP inputs can be used.

●To connect to the OMRON PLC I/O Units, check the manual for the destination PLC.

Series	Model	Manual No.	Manual
CJ2	CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□	W472	CJ Series CJ2H/CJ2M User's Manual Hardware
NJ	NJ501-□□□□	W500	NJ Series CPU Units User's Manual Hardware
NX	NX-ID□□□□, NX-IA□□□□, NX-OD□□□□, NX-OC□□□□, NX-MD□□□□	W521	NX Series Digital I/O Units User's Manual

G70A (Socket types)

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

PLC I/O Units				Connection pattern	XW2Z-R Cables			G70A-ZOC16 I/O Terminal Sockets		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Input Units										
32 inputs	LX41C4	1 Fujitsu connector (40 p)	NPN or PNP	A	1:2	XW2Z-RI□□□-□□MN	1	---	---	---
	QX41/ QX41-S1/ QX41-S2									
	QX71									
	RX41C4									
64 inputs	LX42C4	2 Fujitsu connectors (40 p)		B	1:2	XW2Z-RI□□□-□□MN	2	---	---	---
	QX42/ QX42-S1									
	QX82/ QX82-S1									
	RX42C4									
Output Units										
32 outputs	LY41NT1P	1 Fujitsu connector (40 p)	NPN	A	1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70A-ZOC16-3	2
	QY41P									
	QY71									
	RY41NT2P									
	LY41PT1P	1 Fujitsu connector (40 p)	PNP		1:2	XW2Z-RO□□□-□□MN	1	PNP outputs	G70A-ZOC16-4	2
	RY41PT1P									
	RY41PT2H									
64 outputs	LY42NT1P	2 Fujitsu connectors (40 p)	NPN	B	1:2	XW2Z-RO□□□-□□MN	2	NPN outputs	G70A-ZOC16-3	4
	RY42NT2P									
	QY42P									
	LY42PT1P	2 Fujitsu connectors (40 p)	PNP		1:2	XW2Z-RO□□□-□□MN	2	PNP outputs	G70A-ZOC16-4	4
	RY42PT1P									
	QY82P									
Mixed I/O Units										
32 inputs/ 32 outputs	RH42C4NT2P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP	B	1:2	XW2Z-RI□□□-□□MN	1	---	---	---
	RH42C4NT2P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70A-ZOC16-3	2
	QH42P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	---	---	---
	QH42P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70A-ZOC16-3	2
	QX41Y41P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	---	---	---
	QX41Y41P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70A-ZOC16-3	2
	LH42C4NT1P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	---	---	---
	LH42C4NT1P (Outputs)		NPN		1:2	XW2Z-RO□□□-□□MN	1	NPN outputs	G70A-ZOC16-3	2
	LH42C4PT1P (Inputs)	2 Fujitsu connectors (40 p)	NPN or PNP		1:2	XW2Z-RI□□□-□□MN	1	---	---	---
	LH42C4PT1P (Outputs)		PNP		1:2	XW2Z-RO□□□-□□MN	1	PNP outputs	G70A-ZOC16-4	2

Note: 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 type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

Table of I/O Relay Terminal and connectable device combinations

G70A (Socket types)
Combinations with the OMRON DeviceNet Slaves

DeviceNet Slaves				Connection pattern	XW2Z-R Cables			G70A-ZOC16 I/O Terminal Sockets		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Smart Slave DRT2-series MIL connector terminal										
16 outputs	DRT2-OD16ML	1 MIL connector (20 p)	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G70A-ZOC16-3	1
	DRT2-OD16ML-1	1 MIL connector (20 p)	PNP		1:1	XW2Z-RO□C	1	PNP outputs	G70A-ZOC16-4	1
32 outputs	DRT2-OD32ML	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-3	2
	DRT2-OD32ML-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	2
16 inputs/ 16 outputs	DRT2-MD32ML	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70A-ZOC16-3	1
	DRT2-MD32ML-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	1
Smart Slave DRT2-series board terminal MIL connector type (Horizontal type)										
32 outputs	DRT2-OD32B	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-3	2
	DRT2-OD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	2
16 inputs/ 16 outputs	DRT2-MD32B	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70A-ZOC16-3	1
	DRT2-MD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	1
Smart Slave DRT2-series board terminal MIL connector type (Vertical type)										
32 outputs	DRT2-OD32BV	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70A-ZOC16-3	2
	DRT2-OD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	2
16 inputs/ 16 outputs	DRT2-MD32BV	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70A-ZOC16-3	1
	DRT2-MD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70A-ZOC16-4	1
Multiple I/O terminal connector type digital I/O unit (Fujitsu connector)										
16 outputs	GT1-OD16ML	1 Fujitsu connector (24 p)	NPN	F	1:1	XW2Z-R□C	1	NPN outputs	G70A-ZOC16-3	1
	GT1-OD16ML-1	1 Fujitsu connector (24 p)	PNP		1:1	XW2Z-R□C	1	PNP outputs	G70A-ZOC16-4	1
Multiple I/O terminal multiple connector type digital I/O unit (Fujitsu connector)										
32 outputs	GT1-OD32ML	1 Fujitsu connector (40 p)	NPN	F	1:2	XW2Z-RO□C-□	1	NPN outputs	G70A-ZOC16-3	2
	GT1-OD32ML-1	1 Fujitsu connector (40 p)	PNP		1:2	XW2Z-RO□C-□	1	PNP outputs	G70A-ZOC16-4	2

Note: On the G70A I/O terminal socket, the mounted relay is an option.
✻**1.** The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)

Combinations with G70D

G70D
Combinations with the OMRON PLC NX Series

NX I/O Units				Connection pattern	XW2Z-R Cables			G70D Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Output Units										
16 outputs	NX-OD5121-5	1 MIL connector (20 p)	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G70D-SOC16/FOM16	1
					1:1	XW2Z-RO□C	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:1	XW2Z-RO□C	1	NPN outputs	G70D-SOC08 ✻2	1
	NX-OD5256-5	1 MIL connector (20 p)	PNP		1:1	XW2Z-RO□C	1	PNP outputs	G70D-SOC16-1/FOM16-1	1
32 outputs	NX-OD6121-5	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	2
	NX-OD6256-5	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	2
	NX-OD6121-6	1 Fujitsu connector (40p)	NPN		1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC08 ✻2	2
Mixed I/O Units										
16 inputs/ 16 outputs	NX-MD6121-6	2 Fujitsu connectors (24 p) (1 for 16 inputs and 1 for 16 outputs)	Outputs: NPN	E	1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC16/FOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC08 ✻2	1
	NX-MD6121-5	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Outputs: NPN	E	1:1	XW2Z-RO□C	1	NPN outputs	G70D-SOC16/FOM16	1
					1:1	XW2Z-RO□C	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:1	XW2Z-RO□C	1	NPN outputs	G70D-SOC08 ✻2	1
	NX-MD6256-5	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Outputs: PNP	E	1:1	XW2Z-RI□C	1	PNP outputs	G70D-SOC16-1/FOM16-1	1

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻2. 8 outputs type.

Table of I/O Relay Terminal and connectable device combinations

G70D
Combinations with the OMRON PLC CJ Series

CJ1W I/O Units				Connection pattern	XW2Z-R Cables			G70D Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Output Units										
32 outputs	CJ1W-OD231	1 Fujitsu connector (40p)	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC16/FOM16	1
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC08 ✻2	1
	CJ1W-OD233	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	1
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	1
	CJ1W-OD232	1 MIL connector (40 p)	Sourcing (PNP)		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	2
	CJ1W-OD234	1 MIL connector (40 p)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	2
64 outputs	CJ1W-OD261	2 Fujitsu connectors (40p) (2, 32-point connectors)	Sinking (NPN)	B	1:2	XW2Z-RO□C-□	2	NPN outputs	G70D-SOC16/FOM16	4
					1:2	XW2Z-RO□C-□	2	NPN outputs	G70D-VSOC16/VFOM16	4
					1:2	XW2Z-RO□C-□	2	NPN outputs	G70D-SOC08 ✻2	4
	CJ1W-OD262	2 MIL connectors (40 p) (2, 32-point connectors)	Sourcing (PNP)		1:2	XW2Z-RO□-□-D1	2	PNP outputs	G70D-SOC16-1/FOM16-1	4
	CJ1W-OD263	2 MIL connectors (40 p) (2, 32-point connectors)	Sinking (NPN)		1:2	XW2Z-RO□-□-D1	2	NPN outputs	G70D-SOC16/FOM16	4
					1:2	XW2Z-RO□-□-D1	2	NPN outputs	G70D-VSOC16/VFOM16	4
					1:2	XW2Z-RO□-□-D1	2	NPN outputs	G70D-SOC08 ✻2	4
Mixed I/O Units										
16 inputs/ 16 outputs	CJ1W-MD231	2 Fujitsu connectors (24 p) (1 for 16 inputs and 1 for 16 outputs)	Outputs: Sinking (NPN)	E	1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC16/FOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC08 ✻2	1
	CJ1W-MD233	2 MIL connectors (20 p) (1 for 16 inputs and 1 for 16 outputs)	Outputs: Sinking (NPN)		1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC16/FOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC08 ✻2	1
	CJ1W-MD232	2 MIL connectors (40 p) (1 for 16 inputs and 1 for 16 outputs)	Outputs: Sourcing (PNP)		1:1	XW2Z-RI□C	1	PNP outputs	G70D-SOC16-1/FOM16-1	1
32 inputs/ 32 outputs	CJ1W-MD261	2 Fujitsu connectors (40p) (1 for 32 inputs and 1 for 32 outputs)	Outputs: Sinking (NPN)	B	1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC08 ✻2	2
	CJ1W-MD263	2 MIL connectors (40 p) (1 for 32 inputs and 1 for 32 outputs)	Outputs: Sinking (NPN)		1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	2

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻2. 8 outputs type.

G70D
Combinations with the OMRON PLC CS Series

CS1W I/O Units				Connection pattern	XW2Z-R Cables			G70D Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Output Units Transistor Output Units										
32 outputs	CS1W-OD231	1 Fujitsu connector (40p)	Sinking (NPN)	A	1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC08 ✻2	2
	CS1W-OD232	1 Fujitsu connector (40p)	Sourcing (PNP)		1:2	XW2Z-RO□C-□	1	PNP outputs	G70D-SOC16-1/FOM16-1	2
64 outputs	CS1W-OD261	2 Fujitsu connectors (40p) (2, 32-point connectors)	Sinking (NPN)	B	1:2	XW2Z-RO□C-□	2	NPN outputs	G70D-SOC16/FOM16	4
					1:2	XW2Z-RO□C-□	2	NPN outputs	G70D-VSOC16/VFOM16	4
					1:2	XW2Z-RO□C-□	2	NPN outputs	G70D-SOC08 ✻2	4
	CS1W-OD262	2 Fujitsu connectors (40p) (2, 32-point connectors)	Sourcing (PNP)		1:2	XW2Z-RO□C-□	2	PNP outputs	G70D-SOC16-1/FOM16-1	4
96 outputs	CS1W-OD291	2 Fujitsu connectors (56p) (2, 48-point connectors)	Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	2	NPN outputs	G70D-SOC16/FOM16	6
					1:3	XW2Z-R□C-□-□	2	NPN outputs	G70D-VSOC16/VFOM16	6
					1:3	XW2Z-R□C-□-□	2	NPN outputs	G70D-SOC08 ✻2	6
	CS1W-OD292	2 Fujitsu connectors (56p) (2, 48-point connectors)	Sourcing (PNP)		1:3	---	2	PNP outputs	G70D-SOC16-1/FOM16-1	6
Mixed I/O Units DC Transistor Output Units										
32 inputs/ 32 outputs	CS1W-MD261	2 Fujitsu connectors (40p) (1 for 32 inputs and 1 for 32 outputs)	Outputs: Sinking (NPN)	B	1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC08 ✻2	2
	CS1W-MD262	2 Fujitsu connectors (40p) (1 for 32 inputs and 1 for 32 outputs)	Outputs: Sourcing (PNP)		1:2	XW2Z-RO□C-□	1	PNP outputs	G70D-SOC16-1/FOM16-1	2
48 inputs/ 48 outputs	CS1W-MD291	2 Fujitsu connectors (56p) (1 for 48 inputs and 1 for 48 outputs)	Outputs: Sinking (NPN)	D	1:3	XW2Z-R□C-□-□	1	NPN outputs	G70D-SOC16/FOM16	3
					1:3	XW2Z-R□C-□-□	1	NPN outputs	G70D-VSOC16/VFOM16	3
					1:3	XW2Z-R□C-□-□	1	NPN outputs	G70D-SOC08 ✻2	3
	CS1W-MD292	2 Fujitsu connectors (56p) (1 for 48 inputs and 1 for 48 outputs)	Outputs: Sourcing (PNP)		1:3	---	1	PNP outputs	G70D-SOC16-1/FOM16-1	3

✻1. The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻2. 8 outputs type.

Table of I/O Relay Terminal and connectable device combinations

G70D
Combinations with the OMRON DeviceNet Slaves

DeviceNet Slaves				Connection pattern	XW2Z-R Cables			G70D Relay Terminals		
I/O capacity	Model	External connectors	Polarity		Connection	Model ✻1	Quantity required	Specifications	Model	Quantity required
Input unit Smart Slave DRT2-series MIL connector terminal										
16 outputs	DRT2-OD16ML	1 MIL connector (20 p)	NPN	F	1:1	XW2Z-RO□C	1	NPN outputs	G70D-SOC16/FOM16	1
					1:1	XW2Z-RO□C	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:1	XW2Z-RO□C	1	NPN outputs	G70D-SOC08 ✻2	1
	DRT2-OD16ML-1	1 MIL connector (20 p)	PNP		1:1	XW2Z-RO□C	1	PNP outputs	G70D-SOC16-1/FOM16-1	1
32 outputs	DRT2-OD32ML	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	2
	DRT2-OD32ML-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	2
16 inputs/ 16 outputs	DRT2-MD32ML	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	1
	DRT2-MD32ML-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	1
Smart Slave DRT2-series board terminal MIL connector type (Horizontal type)										
32 outputs	DRT2-OD32B	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	2
	DRT2-OD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	2
16 inputs/ 16 outputs	DRT2-MD32B	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	1
	DRT2-MD32B-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	1
Smart Slave DRT2-series board terminal MIL connector type (Vertical type)										
32 outputs	DRT2-OD32BV	1 MIL connector (40 p)	NPN	A	1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	2
	DRT2-OD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	2
16 inputs/ 16 outputs	DRT2-MD32BV	1 MIL connector (40 p)	NPN		1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-SOC16/FOM16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:2	XW2Z-RM□-□-D1	1	NPN outputs	G70D-SOC08 ✻2	1
	DRT2-MD32BV-1	1 MIL connector (40 p)	PNP		1:2	XW2Z-RO□-□-D1	1	PNP outputs	G70D-SOC16-1/FOM16-1	1
Multiple I/O terminal connector type digital I/O unit (Fujitsu connector)										
16 outputs	GT1-OD16ML	1 Fujitsu connector (24 p)	NPN	F	1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC16/FOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-VSOC16/VFOM16	1
					1:1	XW2Z-R□C	1	NPN outputs	G70D-SOC08 ✻2	1
	GT1-OD16ML-1	1 Fujitsu connector (24 p)	PNP		1:1	XW2Z-R□C	1	PNP outputs	G70D-SOC16-1/FOM16-1	1
Multiple I/O terminal multiple connector type digital I/O unit (Fujitsu connector)										
32 outputs	GT1-OD32ML	1 Fujitsu connector (40p)	NPN	F	1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC16/FOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-VSOC16/VFOM16	2
					1:2	XW2Z-RO□C-□	1	NPN outputs	G70D-SOC08 ✻2	2
	GT1-OD32ML-1	1 Fujitsu connector (40p)	PNP		1:2	XW2Z-RO□C-□	1	PNP outputs	G70D-SOC16-1/FOM16-1	2

✻**1.** The box □ is replaced by the cable length. For type details, refer to the XW2Z-R data sheet. (Cat. No. G126)
✻**2.** 8 outputs type.

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

Note: Do not use this document to operate the Unit.

OMRON Corporation **Industrial Automation Company**

Kyoto, JAPAN **Contact : www.ia.omron.com**

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31) 2356-81-300 Fax: (31) 2356-81-388

OMRON ELECTRONICS LLC
2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.
438B Alexandra Road, #08-01/02 Alexandra
Technopark, Singapore 119968
Tel: (65) 6835-3011 Fax: (65) 6835-3011

OMRON (CHINA) CO., LTD.
Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-6023-0333 Fax: (86) 21-5037-2388

Authorized Distributor:

©OMRON Corporation 2017-2023 All Rights Reserved.
In the interest of product improvement,
specifications are subject to change without notice.

CSM_1_7

Cat. No. J217-E1-04 1023 (0317)