# XW2Z

CSM\_XW2Z\_DS\_E\_5\_3

Connect Connector-Terminal
Block Conversion Units (XW2□) to
I/O Units for Programmable
Controllers with one touch.



Shielded

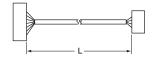
#### **Ordering Information**

For 32-point, Connector-type I/O Units for Programmable Controllers XW2Z-□□□A

(For XW2D-20G6/XW2B-20G□/-40G5-T/-20G5-D/XW2C-20G5-IN16/20G6-IO16/XW2E-20G5-IN16/XW2F-20G7-IN16/-OUT16/XW2N-20G8-IN16)

Cable length L (m) *	Model
0.5	XW2Z-050A
1.0	XW2Z-100A
1.5	XW2Z-150A
2.0	XW2Z-200A
3.0	XW2Z-300A
5.0	XW2Z-500A
10.0	XW2Z-010A
15.0	XW2Z-15MA
20.0	XW2Z-20MA

<sup>\*</sup>Cable length L (m)



## For 32-point, Connector-type I/O Units (Group 2) for Programmable Controllers For 64-point, Connector-type I/O Units for Programmable Controllers

**XW2Z-**□□**B** (For XW2D-40G6/XW2B-40G□)

**XW2Z-**□□□**B-A** (For XW2F-40G7-IN32)

Туре	Cable length L (m) *	Model
	0.5	XW2Z-050B
	1.0	XW2Z-100B
	1.5	XW2Z-150B
	2.0	XW2Z-200B
Normal wiring	3.0	XW2Z-300B
9	5.0	XW2Z-500B
	10.0	XW2Z-010B
	15.0	XW2Z-15MB
	20.0	XW2Z-20MB
	0.5	XW2Z-050B-R1
	1.0	XW2Z-100B-R1
Reverse	1.5	XW2Z-150B-R1
wiring	2.0	XW2Z-200B-R1
	3.0	XW2Z-300B-R1
	5.0	XW2Z-500B-R1

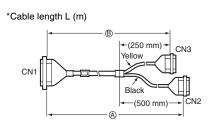
Туре	Cable length L (m) *	Model
	1.0	XW2Z-100B-A
	1.5	XW2Z-150B-A
Normal wiring	2.0	XW2Z-200B-A
9	3.0	XW2Z-300B-A
	5.0	XW2Z-500B-A

\*Cable length L (m)



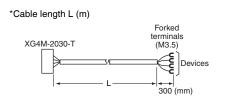
# For 32-point, Connector-type Input Units (Group 2) for Programmable Controllers For 64-point, Connector-type Input Units for Programmable Controllers XW2Z-□□□D

Cable length L (m) *		Model
A	<b>B</b>	wodei
1.0	0.75	XW2Z-100D
1.5	1.25	XW2Z-150D
2.0	1.75	XW2Z-200D
3.0	2.75	XW2Z-300D
5.0	4.75	XW2Z-500D
10.0	9.75	XW2Z-010D
15.0	14.75	XW2Z-15MD
20.0	19.75	XW2Z-20MD



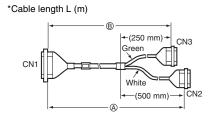
### 20-pole Cable with Discrete-wire Press-fit Terminals XW2Z-□□□F

Cable length L (m) *	Model
1.0	XW2Z-100F
1.5	XW2Z-150F
2.0	XW2Z-200F
3.0	XW2Z-300F
5.0	XW2Z-500F
10.0	XW2Z-010F
15.0	XW2Z-15MF
20.0	XW2Z-20MF



#### For 32-point, Connector-type Output Units (Group 2) for Programmable Controllers For 64-point, Connector-type Output Units for Programmable Controllers XW2Z-□□□L

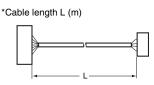
Cable length L (m) *		Model
(A)	B	Wiodei
1.0	0.75	XW2Z-100L
1.5	1.25	XW2Z-150L
2.0	1.75	XW2Z-200L
3.0	2.75	XW2Z-300L
5.0	4.75	XW2Z-500L
10.0	9.75	XW2Z-010L
15.0	14.75	XW2Z-15ML
20.0	19.75	XW2Z-20ML



#### For 96-point, Connector-type I/O Units for Programmable Controllers

XW2Z-DDH-1 (For CS1-series I/O Unit Connection)

Special Connecting Cables *		
Cable length L (m)	Model	
0.5	XW2Z-050H-1	
1.0	XW2Z-100H-1	
1.5	XW2Z-150H-1	
2.0	XW2Z-200H-1	
3.0	XW2Z-300H-1	
5.0	XW2Z-500H-1	
7.0	XW2Z-700H-1	
10.0	XW2Z-010H-1	
1.0	XW2Z-100H-1G	
1.5	XW2Z-150H-1G	
2.0	XW2Z-200H-1G	
3.0	XW2Z-300H-1G	
5.0	XW2Z-500H-1G	



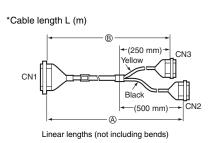
\*Up to two cables required for each Programmable Controller I/O Unit.

Note: CS1 signal names connected to the XW2B/D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G.

Refer to the I/O Signal Tables on page 9.

#### XW2Z-DDH-2 (For CS1-series I/O Unit Connection)

Special Connecting Cables *		
Cable len	igth L (m)	Model
A	B	Model
1.0	0.75	XW2Z-100H-2
1.5	1.25	XW2Z-150H-2
2.0	1.75	XW2Z-200H-2
3.0	2.75	XW2Z-300H-2
5.0	4.75	XW2Z-500H-2
10.0	9.75	XW2Z-010H-2
1.0	0.75	XW2Z-100H-2G
1.5	1.25	XW2Z-150H-2G
2.0	1.75	XW2Z-200H-2G
3.0	2.75	XW2Z-300H-2G
5.0	4.75	XW2Z-500H-2G



\*Up to two cables required for each Programmable Controller I/O Unit.

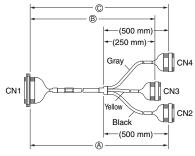
Note: CS1 signal names connected to the XW2B/D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G. Refer to the I/O Signal Tables on page 9.

#### XW2Z-□□□H-3 (For CS1-series I/O Unit Connection)

Special Connecting Cables *			
Model	m)	Cable length L (m)	
wodei	C	<b>B</b>	A
XW2Z-100H-3	1.0	0.75	1.0
XW2Z-150H-3	1.5	1.25	1.5
XW2Z-200H-3	2.0	1.75	2.0
XW2Z-300H-3	3.0	2.75	3.0
XW2Z-500H-3	5.0	4.75	5.0
XW2Z-010H-3	10.0	9.75	10.0

<sup>\*</sup>Up to two cables required for each Programmable Controller I/O Unit.

#### \*Cable length L (m)



Linear lengths (not including bends)

### For 32-point, MIL Connector-type I/O Units for Programmable Controllers XW2Z-□□□K

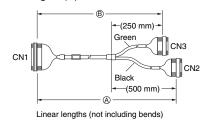
Cable length L (m) *	Model
0.25	XW2Z-C25K
0.5	XW2Z-C50K
1.0	XW2Z-100K
1.5	XW2Z-150K
2.0	XW2Z-200K
3.0	XW2Z-300K
5.0	XW2Z-500K



#### $XW2Z-\Box\Box\Box N$

Cable length L (m) *		Model
<b>(A</b> )	<b>B</b>	Wodel
1.0	0.75	XW2Z-100N
1.5	1.25	XW2Z-150N
2.0	1.75	XW2Z-200N
3.0	2.75	XW2Z-300N
5.0	4.75	XW2Z-500N
10.0	9.75	XW2Z-010N
15.0	14.75	XW2Z-15MN
20.0	19.75	XW2Z-20MN





#### XW2Z-□□□X

Cable length L (m) *	Model
0.5	XW2Z-C50X
1.0	XW2Z-100X
2.0	XW2Z-200X
3.0	XW2Z-300X
5.0	XW2Z-500X
10.0	XW2Z-010X

#### \*Cable length L (m)



### **Ratings and Specifications**

Rated current	1 A
Rated voltage	125 VAC 24 VDC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.) *1
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	500 VAC for 1 min (leakage current: 1 mA max.) *2
Ambient operating temperature	0 to 80°C

<sup>\*1.</sup> Contact resistance for the Connector. \*2. Dielectric strength for the Connector.

#### **Materials and Finish**

Item	P	Part name		Materials and Finish	
Connectors XG41 FCN-		Housing		Fiber-glass reinforced PBT resin (UL94V-0)/black	
	XG4M-2030	Cover		Tiber-glass reinforced FBT Testif (OL94V-0)/black	
	XG4M-4030	Contacts	Mating end	Phosphor bronze/nickel base, 0.15-µm gold plating	
		Contacts	Press-fit end	Phosphor bronze/nickel base, 2.0-µm tin plating	
	XG4T-2004/4004	Strain Relief		Fiber-glass reinforced PBT resin (UL94V-0)/black	
		Housing		Polyester resin (UL94V-0)/black	
	FCN-367J024-AU/F * FCN-367J040-AU/F	Contacts	Mating end	Copper alloy/gold plated	
			Press-fit end	Copper alloy/tin plated	
		Connecting screw		Steel/nickel plated	
Cable	UL2464 Interface Cable	e Cable		AWG28/Shielded	
Crimp terminal	Forked crimp terminal	Forked crimp terminal		1.25 Y AS 3.5 or the equivalent	

Note: These housings, contacts, and connecting screws are made by Fujitsu.

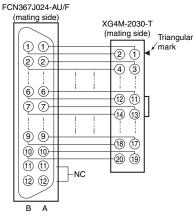
#### For 32-point, Connector-type I/O Units for Programmable Controllers

XW2Z-□□□A

(For XW2D-20G6/XW2B-20G□/-40G5-T/-20G5-D/ XW2C-20G5-IN16/20G6-IO16/XW2E-20G5-IN16/ XW2F-20G7-IN16/-OUT16/XW2N-20G8-IN16)



Wiring Diagram

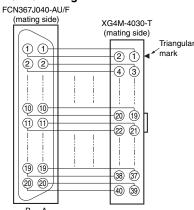


## For 32-point, Connector-type I/O Units (Group 2) for Programmable Controllers For 64-point, Connector-type I/O Units for Programmable Controllers

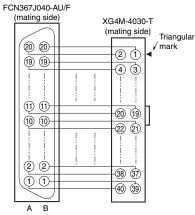
#### XW2Z-□□□B (For XW2D-40G6/XW2B-40G□)



### Wiring Diagram • Normal wiring



#### • Reverse wiring



#### **XW2Z-** B-A (For XW2F-40G7-IN32)





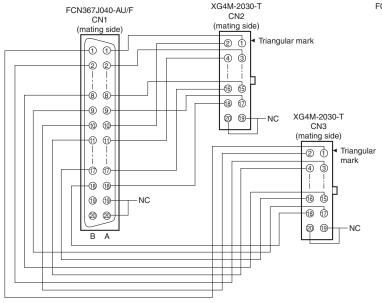
67J040-AU/F B20	XG4M-40
B19	2
B18	3
B17	5
B16	7
B15	9
B14	11
B13	13
B12	15
B11	17
B10	19
B9	4
B8	6
B7	8
B6	10
B5	12
B4	14
B3	16
B2	18
B1	20
A20	21
A19	22
A18	23
A17	25
A16	27
A15	29
A14	31
A13	33
A12	35
A11	37
A10	39
A9	24
A8	26
A7	28
A6	30
A5	32
A4	34
A3	36
A2	38
A1	40

## For 32-point, Connector-type Input Units (Group 2) for Programmable Controllers For 64-point, Connector-type Input Units for Programmable Controllers

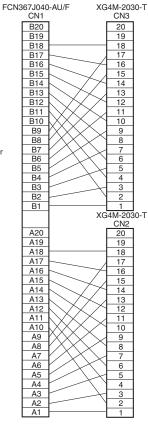
#### XW2Z-□□□D



#### **Wiring Diagram**

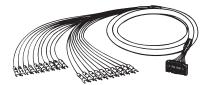


Note: XW2Z-R Cables for I/O Relay Terminals have different wiring and cannot be used with the XW2C.

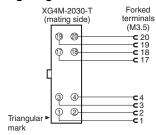


#### 20-pole Cable with Discrete-wire Press-fit Terminals

#### XW2Z-□□□F



#### **Wiring Diagram**



#### **Connector Pin No. Table**

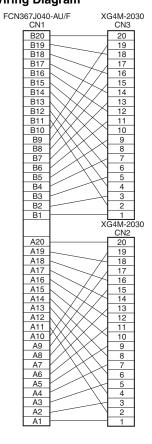
Forked terminal	No. of cores	Insulation color	Dot marks	Dot color	Connector pin No.
1	1	Blue		Red	1⊲
2	ı	Blue		Black	2
3	2	Pink		Red	3
4	2	Pink		Black	4
5	3	Green		Red	5
6	3	Green		Black	6
7	4	Orange		Red	7
8	4	Orange		Black	8
9	5	Gray		Red	9
10	5	Gray		Black	10
11	6	Blue		Red	11
12	0	Blue		Black	12
13	7	Pink		Red	13
14	,	Pink		Black	14
15	8	Green		Red	15
16	0	Green		Black	16
17	9	Orange		Red	17
18	9	Orange		Black	18
19	10	Gray		Red	19
20	10	Gray		Black	20

For 32-point, Connector-type Output Units (Group 2) for Programmable Controllers For 64-point, Connector-type Output Units for Programmable Controllers

#### XW2Z-□□□L

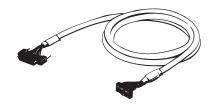


#### Wiring Diagram



#### For 96-point, Connector-type I/O Units for Programmable Controllers

#### XW2Z- H (For CS1-series I/O Unit Connection)







#### I/O Signal Tables (Example Using CN1 on CS1W-OD291)

XW2Z-□□□H-□	Connecting	Cables
^ *** <u></u>	COLLICCTION	Cabics

XVVZZ	coming capito		
XW2Z-□□□H-3		Word N+1 (CN3)  1 2 3 4 5 6 7 COM NC  3 5 7 9 1 1 5 7 9  2 4 6 8 1 2 4 15 +V NC	Word N+2 (CN4) 0 1 2 3 4 5 6 7 C0M NC 1 3 5 7 9 1 3 5 7 0 1 1 1 1 2 13 14 15 +V NC
XW2Z-□□□H-2	XW2□-40G□   0 1 2 3 4 5 6 7 COM NC 0 1   ① ③ ⑤ ⑦ ⑨ ① ③ ⑤ ⑦ ⑨ ② ②   2 ④ ⑥ ⑧ ⑩ ② ④ ⑥ № ② ② ②   8 9 10 11 12 13 14 15 +V NC 8 9	Word N+1 (CN2) 2 3 4 5 6 7 COM NC 3 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	W2□-20G□  Word N+2 (CN3)  1 2 3 4 5 6 7 COM NC  3 ⑤ ⑦ ⑨ ⑪ ⑬ 顷 ⑰ ⑩  2 ④ ⑥ ⑧ ⑩ ② ⑭ ⑯ ⑱ ⑳  8 9 10 11 12 13 14 15 +V NC
XW2Z-□□□H-1	XW2B-60G□  Word N (CN2)  0 1 2 3 4 5 6 7 COM 0 1 2  1 3 5 7 9 1 3 5 7 9 2 2 2  2 4 6 8 1 2 4 6 8 2 2 2  8 9 10 11 12 13 14 15 +V 8 9 10	3 4 5 6 7 COM 0 1 2 3 4 25 7 29 31 33 35 37 39 41 43 45 5 8 30 32 34 36 38 40 42 44	N+2 (CN2) 5 6 7 COM NC NC NC 1 9 9 5 5 5 5 5 5 6 7 COM NC NC NC 1 9 9 5 5 5 5 6 6 7 COM NC

XW2Z-	LDDD Connecting	a Cables
$\lambda W Z Z - \Box \Box \Box \Box - \Box G / \lambda W Z Z -$	 Connecum	a Cables

ATTLE BOOT BOOK	22-Nobel Confidence (Ing Confi	Dubics	
	XW2□-20G□		
XW2Z-R000C-000-000	Word N (CN2) +V NC 15 14 13 12 11 10 9 8  ①③⑤⑦⑨①③⑤⑦⑩  ②468000000000000000000000000000000000000	Word N+1 (CN3) +V NC 15 14 13 12 11 10 9 8 1 3 5 7 9 1 3 5 7 9 2 4 6 8 0 2 4 5 8 2 1 0	Word N+2 (CN4)  +V NC 15 14 13 12 11 10 9 8  1 3 5 7 9 1 3 5 7 9  2 4 6 8 0 2 4 6 8 2  NC COM 7 6 5 4 3 2 1 0
XW2Z-□□□H-2G	XW2□-40G□  Word N (CN2)  +V NC 15 14 13 12 11 10 9 8 +V N  ① ③ ⑤ ⑦ ⑨ ① ③ ⑤ ⑦ ⑨ ②  ② ④ ⑥ ⑧ ⑩ ② ④ ⑥ ⑩ ② ②  NC COM 7 6 5 4 3 2 1 0 NC	Word N+ 1 (CN2) NC 15 14 13 12 11 10 9 8 4 3 3 3 9 9 9 9 9 (	W2□-20G□  Word N +2 (CN3)  V NC 15 14 13 12 11 10 9 8  □ ③ ⑤ ⑦ ⑨ □ ③ ⑤ ⑦ ⑨  □ ② ④ ⑥ ⑧ □ ② □ ⑥ ⑧ ②  NC COM 7 6 5 4 3 2 1 0
XW2Z-□□□H-1G		, ,	9 47 49 57 53 55 57 59 66 48 50 52 54 58 58 60

 $Note: The \ XW2Z-\square\square\squareH-\squareG \ I/O \ signal \ arrangement \ is \ oriented \ the \ same \ as \ the \ XW2Z-R \ Cables \ for \ I/O \ Relay \ Terminals.$ 

#### For 32-point, MIL Connector-type I/O Units for Programmable Controllers

 $XW2Z-\Box\Box\Box N$ 

#### $XW2Z-\Box\Box\Box K$ **Wiring Diagram** XG4M-4030-T (mating side) XG4M-4030-T (mating side) Triangular mark 39 40 21 37 38 4 3 21 22 -20 (19 19 20 -22 21 3 4 -38 37 40 39 (1) (2) Triangular mark Note: Connector pins are connected 1-to-1 so

that pin numbers correspond.

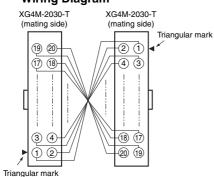
#### **Wiring Diagram** XG4M-2030-T CN2 (mating side) Triangular mark XG4M-4030-T (mating side) 2 (1) 39 40 4 3 37 38 18 (17) 23 24 -20 (19) 21 22 Triangular mark (19 (20) 2 1 (17) (18) 4 3 3 4 -18 (17 1 2 -20 (19 Triangular mark XG4M-2030-T CN3

(mating side)

#### $XW2Z-\Box\Box\Box X$



#### **Wiring Diagram**



Note: Connector pins are connected 1-to-1 so that pin numbers correspond.

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