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## Connect Connector-Terminal

Block Conversion Units (XW2 $\square$ ) to
I/O Units for Programmable
Controllers with one touch.


## Ordering Information

For 32-point, Connector-type I/O Units for Programmable Controllers
XW2Z- $\square \square \square$
(For XW2D-20G6/XW2B-20G $\square /-40 G 5-T /-20 G 5-D /$
XW2C-20G5-IN16/20G6-IO16/XW2E-20G5-IN16/
XW2F-20G7-IN16/-OUT16/XW2N-20G8-IN16)

| Cable length $\mathrm{L}(\mathrm{m})^{*}$ | 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 |

*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- $\square \square$ B (For XW2D-40G6/XW2B-40G■)

XW2Z- $\square \square$ B-A (For XW2F-40G7-IN32)

| Type | Cable length L(m) ${ }^{*}$ | Model |
| :---: | :---: | :---: |
| Normal <br> wiring | 1.0 | XW2Z-100B-A |
|  | 1.5 | XW2Z-150B-A |
|  | 2.0 | XW2Z-200B-A |
|  | 3.0 | XW2Z-300B-A |
|  | 5.0 | XW2Z-500B-A |


| Type | Cable length $\mathrm{L}(\mathrm{m})^{*}$ | Model |
| :--- | :---: | :---: |
| Normal <br> wiring | 0.5 | XW2Z-050B |
|  | 1.0 | XW2Z-100B |
|  | 1.5 | XW2Z-150B |
|  | 2.0 | XW2Z-200B |
|  | 3.0 | XW2Z-300B |
|  | 5.0 | XW2Z-500B |
|  | 10.0 | XW2Z-010B |
|  | 15.0 | XW2Z-15MB |
| Reverse <br> wiring | 20.0 | XW2Z-20MB |
|  | 0.5 | XW2Z-050B-R1 |
|  | 1.0 | XW2Z-100B-R1 |
|  | 1.5 | XW2Z-150B-R1 |
|  | 2.0 | XW2Z-200B-R1 |
|  | 3.0 | XW2Z-300B-R1 |

*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- $\square \square \square$

| Cable length $\mathbf{L}(\mathbf{m})^{*}$ |  | Model |
| :---: | :---: | :---: |
| A | (B) |  |
| 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 |

*Cable length $L(m)$


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

XW2Z- $\square \square \square$

| Cable length $\mathrm{L}(\mathrm{m})^{*}$ | 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- $\square \square \square$

| Cable length $\mathrm{L}(\mathrm{m})^{*}$ |  | Model |
| :---: | :---: | :---: |
| (A) | B |  |
| 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 |

*Cable length L (m)


For 96-point, Connector-type I/O Units for Programmable Controllers
XW2Z- $\square \square \square \mathrm{H}$-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 | XW2O-010H-1 |
| 10.0 | XW2Z-100H-1G |
| 1.0 | XW2Z-200H-1G-1G |
| 1.5 | XW2Z-500H-1G |
| 2.0 |  |
| 3.0 |  |
| 5.0 |  |

*Cable length $L(m)$

*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- $\square \square \square \mathrm{H}-\square$ and the $\mathrm{XW} 2 \mathrm{Z}-\square \square \square \mathrm{H}-\square \mathrm{G}$. Refer to the I/O Signal Tables on page 9.

XW2Z- $\square \square \square \mathbf{H - 2}$ (For CS1-series I/O Unit Connection)

| Special Connecting Cables * |  |  |
| :---: | :---: | :---: |
| Cable length L (m) |  | Model |
| (A) | B |  |
| 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 |

*Cable length $L(m)$


Linear lengths (not including bends)

[^0]XW2Z- $\square \square \square \mathbf{H - 3}$ (For CS1-series I/O Unit Connection)

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

*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- $\square \square \square K$

| Cable length $\mathrm{L}(\mathrm{m})^{\star}$ | 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 |

*Cable length $L$ (m)


XW2Z- $\square \square \square \mathbf{N}$

| Cable length $\mathrm{L}(\mathrm{m})^{*}$ |  | Model |
| :---: | :---: | :---: |
| (A) | B |  |
| 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- $\square \square \square$ X

| Cable length $\mathrm{L}(\mathrm{m})^{*}$ | 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)


Linear lengths (not including bends)
*Cable length $L(m)$


## Ratings and Specifications

| Rated current | 1 A |
| :--- | :--- |
| Rated voltage | 125 VAC 24 VDC |
| Contact resistance | $20 \mathrm{~m} \Omega$ max. (at $20 \mathrm{mV}, 100 \mathrm{~mA}$ max.) *1 |
| Insulation resistance | $100 \mathrm{M} \Omega \mathrm{min}$. (at 500 VDC ) |
| Dielectric strength | 500 VAC for 1 min (leakage current: 1 mA max.) *2 |
| Ambient operating <br> temperature | 0 to $80^{\circ} \mathrm{C}$ |
| *1. Contact resistance for the Connector. <br> *2. Dielectric strength for the Connector. |  |

## Materials and Finish

| Item | Part name |  |  | Materials and Finish |
| :---: | :---: | :---: | :---: | :---: |
| Connectors | $\begin{aligned} & \text { XG4M-2030 } \\ & \text { XG4M-4030 } \end{aligned}$ | Housing |  | Fiber-glass reinforced PBT resin (UL94V-0)/black |
|  |  | Cover |  |  |
|  |  | Contacts | Mating end | Phosphor bronze/nickel base, 0.15- $\mu \mathrm{m}$ gold plating |
|  |  |  | Press-fit end | Phosphor bronze/nickel base, $2.0-\mu \mathrm{m}$ tin plating |
|  | XG4T-2004/4004 | Strain Relief |  | Fiber-glass reinforced PBT resin (UL94V-0)/black |
|  | $\begin{aligned} & \text { FCN-367J024-AU/F * } \\ & \text { FCN-367J040-AU/F } \end{aligned}$ | Housing |  | Polyester resin (UL94V-0)/black |
|  |  | Contacts | Mating end | Copper alloy/gold plated |
|  |  |  | Press-fit end | Copper alloy/tin plated |
|  |  | Connecting screw |  | Steel/nickel plated |
| Cable | UL2464 Interface Cable |  |  | AWG28/Shielded |
| Crimp terminal | Forked crimp terminal |  |  | 1.25 Y AS 3.5 or the equivalent |

[^1]
## Appearance and Wiring Diagrams

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

XW2Z-
A
(For XW2D-20G6/XW2B-20Gロ/-40G5-T/-20G5-D/
XW2C-20G5-IN16/20G6-IO16/XW2E-20G5-IN16/
XW2F-20G7-IN16/-OUT16/XW2N-20G8-IN16)


Wiring Diagram
FCN367J024-AU/F


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- $\square \square \square$ B (For XW2D-40G6/XW2B-40G $\square$ )
Wiring Diagram


XW2Z- $\square \square \square$ B-A (For XW2F-40G7-IN32)
Wiring Diagram



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

XW2Z- $\square \square \square$


## Wiring Diagram



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

XW2Z- $\square \square \square F$


Wiring Diagram


Connector Pin No. Table

| Forked terminal | No. of cores | Insulation color | Dot marks | Dot color | Connector pin No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | Blue | $\square$ | Red | $1 \triangleleft$ |
| 2 |  | Blue | $\square$ | Black | 2 |
| 3 | 2 | Pink | $\square$ | Red | 3 |
| 4 |  | Pink | $\square$ | Black | 4 |
| 5 | 3 | Green | $\square$ | Red | 5 |
| 6 |  | Green | $\square$ | Black | 6 |
| 7 | 4 | Orange | $\square$ | Red | 7 |
| 8 |  | Orange | $\square$ | Black | 8 |
| 9 | 5 | Gray | $\square$ | Red | 9 |
| 10 |  | Gray | $\square$ | Black | 10 |
| 11 | 6 | Blue | $\square \square$ | Red | 11 |
| 12 |  | Blue | $\square \square$ | Black | 12 |
| 13 | 7 | Pink | $\square \square$ | Red | 13 |
| 14 |  | Pink | $\square \square$ | Black | 14 |
| 15 | 8 | Green | $\square \square$ | Red | 15 |
| 16 |  | Green | $\square \square$ | Black | 16 |
| 17 | 9 | Orange | $\square \square$ | Red | 17 |
| 18 |  | Orange | $\square \square$ | Black | 18 |
| 19 | 10 | Gray | $\square \square$ | Red | 19 |
| 20 |  | Gray | $\square \square$ | 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- $\square \square \square \mathbf{L}$


Wiring Diagram


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

## XW2Z－$\square \square \square H$（For CS1－series I／O Unit Connection） <br> XW2Z－ロロロ H － <br> xW2Z－$\square$ H－2



xW2Z－$\square$（


I／O Signal Tables（Example Using CN1 on CS1W－OD291）
XW2Z－$\square \square \square$ H－Connecting Cables

|  | XW2■－20G■ |
| :---: | :---: |
| XW2Z－$\square \square \square \mathrm{H}-3$ |   <br> Word $\mathrm{N}+2$（CN4） |
| XW2Z－$\square \square \square \mathrm{H}-2$ |  |

XW2B－60G $\square$
Word N（CN2）Word N＋1（CN2）Word N＋2（CN2）


XW2Z－$\square \square \square \mathbf{H}-\square \mathbf{G} / \mathrm{XW} 2 Z-\mathrm{R} \square \square \square \mathbf{C}-\square \square \square-\square \square \square$ Connecting Cables

|  | XW2 $\square$－20G $\square$ |
| :---: | :---: |
| XW2Z－R $\square \square \square \mathbf{C - \square \square \square - \square \square \square ~}$ |   <br> Word $\mathrm{N}+2$（CN4） |
| XW2Z－■ $\square \square \mathbf{H - 2 G}$ |  |
| XW2Z－$\square \square \mathbf{H - 1 G}$ | XW2B－60G $\square$ |

[^2]
## For 32-point, MIL Connector-type I/O Units for Programmable Controllers

XW2Z- $\square \square \square K$


Wiring Diagram


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

XW2Z- $\square \square \mathbf{N}$


Wiring Diagram


XW2Z- $\square \square \square \mathbf{X}$


Wiring Diagram


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[^0]:    位
    Note: CS1 signal names connected to the XW2B/D are different for the XW2Z- $\square \square \square \mathrm{H}-\square$ and the XW2Z- $\square \square \square \mathrm{H}-\square \mathrm{G}$
    Refer to the I/O Signal Tables on page 9.

[^1]:    Note: These housings, contacts, and connecting screws are made by Fujitsu.

[^2]:    Note：The XW2Z－$\square \square \square \mathrm{H}-\square \mathrm{G}$ I／O signal arrangement is oriented the same as the XW2Z－R Cables for I／O Relay Terminals．

