I/O Wiring Diagrams

SYSMAC CP-series Expansion I/O Units

CP1W-4EDR/4EDT/4EDC
24-V DC Input (24 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-4EDT
Transistor (NPN) Output (16 Points)
Upper Terminal Block

CP1W-32ER
Relay Output (32 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-32ET
Transfer (NPN) Output (32 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-4EDR
Relay Output (16 Points)
Lower Terminal Block

CP1W-4EDT1
Transistor (PnP) Output (16 Points)
Lower Terminal Block

CP1W-32ET1
Transfer (NPN) Output (32 Points)
Lower Terminal Block

CP1W-32ET
Transfer (NPN) Output (32 Points)
Lower Terminal Block

CP1W-32ER
Relay Output (32 Points)
Lower Terminal Block

CP1W-20EDR/20EDT/20EDC
24-V DC Input (12 Points)
Upper Terminal Block

CP1W-20EDT
Transistor (NPN) Output (8 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-16ER
Relay Output (16 Points)
Upper Terminal Block

CP1W-20EDR1
Relay Output (8 Points)
Lower Terminal Block

CP1W-20EDT1
Transistor (PnP) Output (8 Points)
Lower Terminal Block

CP1W-16ER1
Relay Output (16 Points)
Lower Terminal Block

CP1W-16ET
Transfer (NPN) Output (16 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-16ET1
Transfer (PnP) Output (16 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-9ED
24-V DC Input (16 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-8ER
Relay Output (8 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-8ET
Transfer (NPN) Output (8 Points)
Upper Terminal Block
Lower Terminal Block

CP1W-8ET1
Transfer (PnP) Output (8 Points)
Upper Terminal Block
Lower Terminal Block

In the diagram, "m" and "n" are the input words and "m" is the output word allocated to the CPU Unit, Expansion I/O Unit, or Expansion Unit on the left of the Unit being described.
Precautions for Compliance with UL Standards and CSA Standards

Notice to Users of the SYSMAC CP1 I/O Units in the USA and Canada

Please observe the following installation information instead of the general information in the instruction manuals in order to use the product under the certified conditions of UL and CSA when the products are installed in the USA and Canada. These conditions are according to the National Electrical Code in the USA and the Canadian Electrical Code and may vary from information given in the product manuals or safety precautions.

- I/O Wiring
- Do not use crimp terminal for I/O wiring. Tighten the screw directly on the solid wire.
- Do not insert more than one wire in one terminal.
- Tightening torque: 4.4 Lb-in (0.5 N·m)
- Wire range: AWG 26 to 18 (Solid wire only)
- Surrounding Air Temperature
- Rated temperature: 55°C