

Precautions for Compliance with UL/CSA Standards and EU Directives

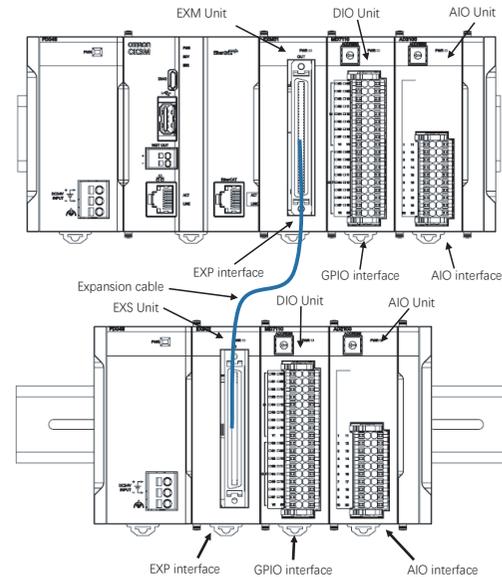
Notice to Users of the CK3M-series components in the USA, Canada and Europe

This manual must be consulted in all cases in order to find out the nature of the potential HAZARDS and any actions which have to be taken to avoid them. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. This product is defined as an in-panel device and must be installed within a control panel.

Model

CK3W-MD7110, CK3W-MD7120, CK3W-AD2100, CK3W-AD3100, CK3W-EXM01 and CK3W-EXS02.

Electrical Rating



All external power sources must be class 2 or SELV power supplies with F4A over-current protection.

[Power consumption]

CK3W-MD7110: 5 V DC, 1.0 W	CK3W-AD2100: 5 V DC, 0.9 W
CK3W-MD7120: 5 V DC, 1.0 W	24 V DC, 1.4 W
CK3W-EXM01 : 5 V DC, 0.4 W	CK3W-AD3100: 5 V DC, 0.9 W
CK3W-EXS02 : 5 V DC, 0.2 W	24 V DC, 2.0 W

GPIO Interface

[Digital Input]
24 V DC, 3.9mA/P 16 points.

[Digital Output]
12 to 24 V DC (RES.), (TUN.), (P.D.), 0.5 A/P 16 points, 2 A max. per Unit
Internal current consumption of CK3W-MD7110 : 40 mA max. per Unit
Internal current consumption of CK3W-MD7120 : 80 mA max. per Unit

AIO Interface

[Analog Input]
-10 to +10 V, 4 channels (CK3W-AD2100)
-10 to +10 V, 8 channels (CK3W-AD3100)

Environment

Indoor use only.
Altitude: 2,000 m max.
Surrounding Air Temperature: 0 to 55 °C
Surrounding Air Humidity: 10 to 95%
Overvoltage Category II
Pollution Degree 2

Cable for I/O Terminal

Please select the cable by which rated temperature is 75°C or above.

Cleaning

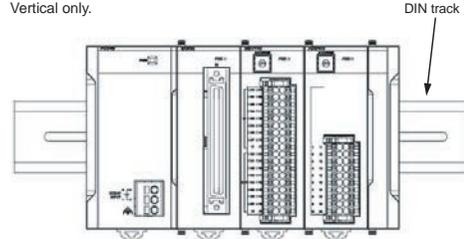
Do not use paint thinner or similar chemical to clean with. Use a dry cloth.

Enclosure Type

Please use this product in a control board.
Enclosure type: Type 1 or more.

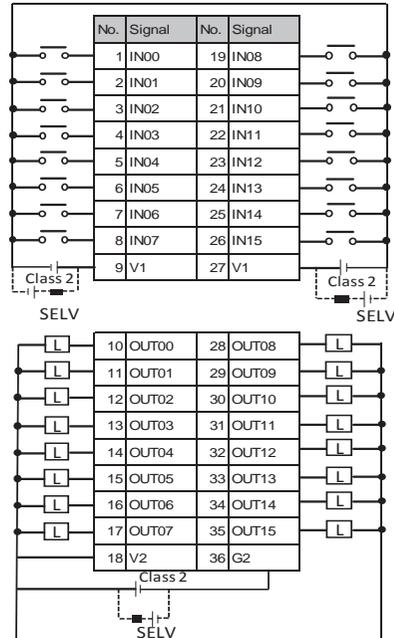
Direction of Installation

Vertical only.

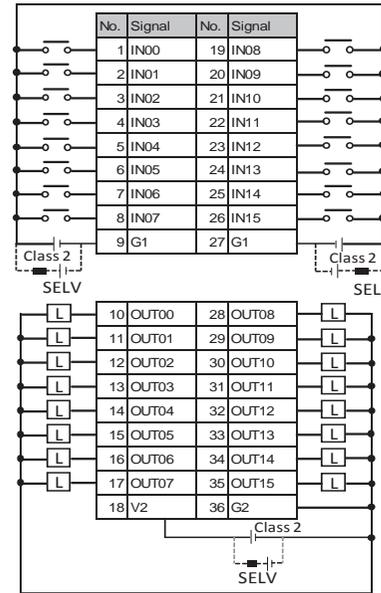


I/O Wiring Diagram

■ GPIO Interface
NPN type



PNP type

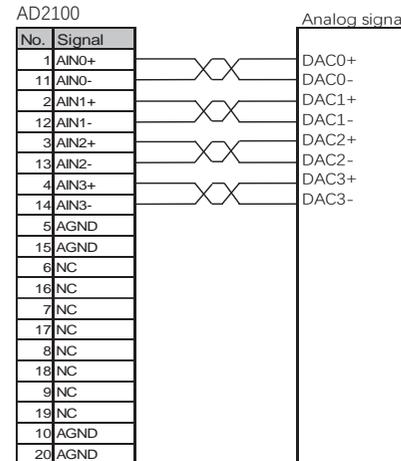


■ : Over-current protection (Current limitation:F4A, 24 VDC minimum)
Use fuses of either of the following categories
● cULus Listed
● UL Listed and CSA certified

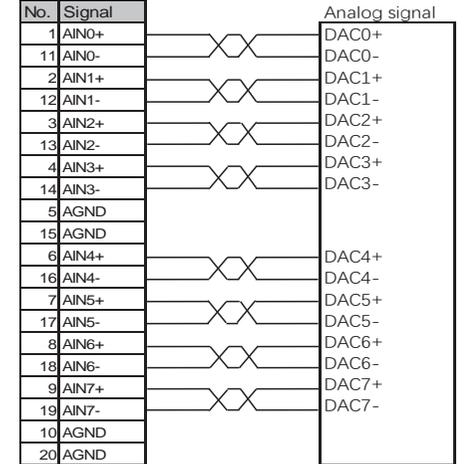
■ EXP Interface

To connect EXM Unit (OUT) to EXS Unit (IN), use the following cable.
CK3W-CAX003A

■ AIO Interface



AD3100



Conformance to UL/CSA Standards

Terminal Connection Diagram

1. Do not use ferrule terminals. Insert the stranded or solid wire directly into the holes on the terminal block.
2. Strip length: 10 mm
3. Wire size: AWG 16 to AWG 26, Solid or Strand, CU

Accessory Cables

Customer must use the following cable for expansion.

Interface	Model	Manufacturer
Expansion Cable	CK3W-CAX003A	OMRON corporation

These accessory cables are Internal Wiring only.
Separate the accessory cable 50.8 mm (2 inch) or more from more than 150 V circuit, 6.4 mm (1/4 inch) or more from less than 150 V circuit.

Conformance to EU Directives

This is a class A product. In a residential areas it may cause radio interference, in which case the user may be required to take adequate measures to reduce interference.

Conformance to KC Standard

사용자안내

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

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Note: Specifications subject to change without notice.