

Notice of Alterations

MW100 Compliant with Safety Standards (IEC/EN/UL/ CSA 61010-1 3rd edition)

This product supports the standards in the following table.

Supported Standards

CSA:	Conforms to CSA22.2 No. 61010-1, CSA C22.2 No.61010-2-030; overvoltage category II, measurement category II, and pollution degree 2
UL:	Conforms to UL61010B-1, UL 61010-2-030 (CSA NRTL/C)
CE:	EMC directives; EN61326-1 compliance, Class A, Table 2 (For use in industrial locations) EN61000-3-2 compliance EN61000-3-3 compliance EN55011 compliance, Class A, Group 1 Low voltage directive: EN61010-1, EN 61010-2-030; overvoltage category II, measurement category II, and pollution degree 2
EMC regulatory arrangement in Australia and New Zealand:	EN55011 compliance, Class A, Group1
KC marking	Electromagnetic wave interference prevention standard, electromagnetic wave protection standard compliance
WEEE directive	Compliant
Overvoltage category II:	An index for defining transient overvoltages (includes the rated impulse withstand voltage, and applies to electrical equipment supplied with power from fixed installations such as distribution boards).
Pollution degree 2:	Indicates the degree of adherence by a solid, liquid, or vapor that reduces the withstand voltage or surface resistance (applies only to normal indoor atmospheres (with non-conductive pollution).
Measurement category II:	Applies to electrical instruments that are powered by wall outlets and other fixed installations that are wired to distribution boards, or measurements of such wires. Measurement category II (IEC61010-2-030) is applied to the universal input modules, the DCV/TC/DI input module, the 4-wire RTD resistance input module, and the strain input module.

Please note the following changes that are underlined or crossed.

Normal Operating Conditions

Overvoltage category:	II (per IEC61010-1, CSA22.2 No. 61010-1)
Measurement category:	II (<u>per IEC61010-2-030, CSA22.2 No.61010-2-030</u>)
Pollution degree:	2 (per IEC61010-1, CSA22.2 No. 61010-1)

Module Specifications

4-CH, High-Speed Universal Input Module (MX110-UNV-H04) Specifications

Withstand voltage:	<u>3000</u> VAC (50/60 Hz) for one minute between input terminals 3700 VAC (50/60 Hz) for one minute between the input terminal and earth terminal
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10-CH, Medium-Speed Universal Input Module (MX110-UNV-M10) Specifications

Common-mode <u>noise</u> voltage between channels:	120 VACrms (50/60 Hz)
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30-CH, Medium-Speed DCV/TC/DI Input Module (MX110-VTD-L30) Specifications

Common-mode <u>noise</u> voltage between channels:	120 VACrms (50/60 Hz)
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6-CH, Medium-Speed Four-Wire RTD Resistance Input Module (MX110-V4R-M06) Specifications

Common-mode <u>noise</u> voltage between channels:	DC voltage, DI: 120 VACrms (50/60 Hz) RTD, resistance: 50 VACrms (50/60 Hz)
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4-CH, Medium-Speed Strain Input Module (MX112) Specifications

Withstand voltage*:	Between input and earth: <u>3000</u> VAC for one minute Channel-to-channel: 30 VACrms or less * Does not apply to the NDIS terminal.
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10-CH, Pulse Input Module (MX114) Specifications

Withstand voltage:	Input terminal to ground: <u>3000</u> VAC (50/60 Hz), for one minute
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10-CH, High-Speed Digital Input Module (MX115) Specifications

Withstand voltage:	<u>3000</u> VAC (50/60 Hz) for one minute between input and earth
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8-CH, Medium-Speed Analog Output Module (MX120-VAO-M08) Specifications

Withstand voltage: 3000 VAC (50/60 Hz) for one minute between the output terminal and earth
 Across output terminals: non-isolated (- terminal common potential)

8-CH, Medium-Speed PWM Output Module (MX120-PWM-M08) Specifications

Withstand voltage: 3000 VAC (50/60 Hz) for one minute between the output terminal and earth
 Across output terminals: non-isolated

10-CH, Medium-Speed Digital Output Module (MX125) Specifications

Withstand voltage: 3000 VAC (50/60 Hz) for one minute between the output terminal and earth
3000 VAC (50/60 Hz) for one minute between output terminals

General Precautions When Wiring the Input/Output Signal Wires**WARNING**

- For signal wires on which voltage exceeding 30 VAC/60 VDC is applied relative to the ground potential or between signals, use reinforced (double) insulation wires. For all other signal wires, use basic insulation wires. For the withstand voltage of insulation wires, see the table below.

Applied Voltage (Vrms or VDC)	Basic Insulation	Double (Reinforced) Insulation
0-150	<u>1350 V rms</u>	<u>2700 V rms</u>
151-300	<u>1500 V rms</u>	<u>3000 V rms</u>
301-600	<u>2210 V rms</u>	<u>3700 V rms</u>

CAUTION

- Do not apply a voltage exceeding the value indicated below to the input terminals of the universal input modules. Doing so can damage the modules.
 - Maximum input voltage
 Voltage range of 1 VDC or less, TC, RTD, and DI (contact): ± 10 VDC
 Voltage range of 2 VDC or more, and DI (LEVEL): ± 120 VDC
 - Maximum common mode voltage
 Input to ground: 600 VACrms (50/60 Hz)
 Between channels: 250 VACrms (50/60 Hz) (-H04)
 - Maximum common mode noise voltage
 Between channels: 120 VACrms (-M10)
- Do not apply a voltage exceeding the values indicated below to the input terminals of the DCV/TC/DI input module. Doing so can damage the module.
 - Maximum input voltage
 Voltage range of 1 VDC or less, TC, and DI (contact): ± 10 VDC
 Voltage range of 2 VDC or more, and DI (LEVEL): ± 120 VDC
 - Maximum common mode voltage
 Input to ground: 600 VACrms (50/60 Hz)
 - Maximum common mode noise voltage
 Between channels: 120 VACrms
- Do not apply a voltage exceeding the value indicated below to the input terminals of the 4-Wire RTD resistance input module. Doing so can damage the module.
 - Maximum input voltage
 Voltage range of 1 VDC or less, RTD, resistance, and DI (contact): ± 10 VDC
 Voltage range of 2 VDC or more, and DI (LEVEL): ± 120 VDC
 - Maximum common mode voltage
 Input to ground: 600 VACrms (50/60 Hz)
 - Maximum common mode noise voltage
 Between channels, Voltage: 120 VACrms
 Between channels, RTD, resistance: 50 VACrms
- This is an overvoltage category II (IEC61010-1) instrument. Measurement category II (IEC61010-2-030) is applied to the universal input modules, the DCV/TC/DI input module, the 4-wire RTD resistance input module, and the strain input module.