



Pinout Guide for 1738 ArmorPoint Analog, Serial, Encoders/Counters, Series A

Catalog Number 1738-IE2CM12, 1738-IE2VM12, 1738-OE2CM12, 1738-OE2VM12, 1738-IE4CM12, 1738-OE4CM12, 1738-IR2M12, 1738-IT2IM12, 1738-232ASCM12, 1738-485ASCM12, 1738-VHSC24M23, 1738-IJM23, 1738-SSIM23

Parts List

Your package contains one 1738 ArmorPoint module and these pinout guide wiring instructions.

For complete installation instructions, refer to the Module Publication Number table and visit <http://literature.rockwellautomation.com>.

Module Publication Number

Module	Pub. No.
ArmorPoint Analog Input Modules (Cat. nos. 1738-IE2CM12, -IE2VM12)	1738-IN003
ArmorPoint Analog Output Modules (Cat. nos. 1738-OE2CM12, -OE2VM12)	1738-IN004
ArmorPoint 4-Channel Analog Input Module (Cat. no. 1738-IE4CM12)	1738-IN024
ArmorPoint 4-Channel Analog Output Module (Cat. no. 1738-OE4CM12)	1738-IN025
ArmorPoint RTD and Thermocouple Modules (Cat. nos. 1738-IR2M12, -IT2IM12)	1738-IN005
ArmorPoint RS232 Module (Cat. no. 1738-232ASCM12)	1738-IN009
ArmorPoint RS485 Module (Cat. no. 1738-485ASCM12)	1738-IN010
ArmorPoint 24V dc VHSC Module (Cat. no. 1738-VHSC24M23)	1738-IN011
ArmorPoint 5V dc Incremental Encoder Module (Cat. no. 1738-IJM23)	1738-IN012

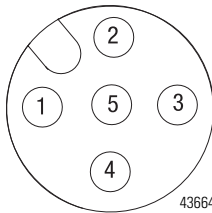
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Module Publication Number

ArmorPoint SSI Interface Module (Cat. no. 1738-SSIM23)

1738-IN013

1738-IE2CM12, 1738-IE2VM12, and 1738-IE4CM12



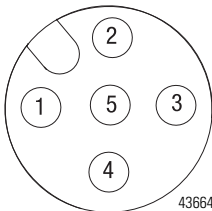
1738-IE2CM12, 1738-IE2VM12

Pin 1 - 24V dc
Pin 2 - Input 0 (M12-A)
 Input 1 (M12-B)
Pin 3 - Common
Pin 4 - Common
Pin 5 - No Connect

1738-IE4CM12

Pin 1 - 24V dc
Pin 2 - Input 0 (M12-A)
 Input 1 (M12-B)
 Input 2 (M12-C)
 Input 3 (M12-D)
Pin 3 - Common
Pin 4 - Common
Pin 5 - No Connect

1738-OE2CM12, 1738-OE2VM12 and 1738-OE4CM12



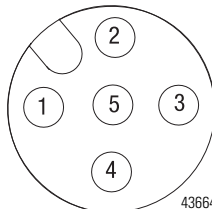
1738-OE2CM12, 1738-OE2VM12

Pin 1 - Output 0 (M12-A)
 Output 1 (M12-B)
Pin 2 - 24V dc
Pin 3 - Common
Pin 4 - Common
Pin 5 - No Connect

1738-OE4CM12

Pin 1 - Output 0 (M12-A)
Pin 1 - Output 1 (M12-B)
Pin 1 - Output 2 (M12-C)
Pin 1 - Output 3 (M12-D)
Pin 2 - 24V dc
Pin 3 - Common
Pin 4 - Common
Pin 5 - No Connect

1738-IR2M12 and 1738-IT2IM12



1738-IR2M12

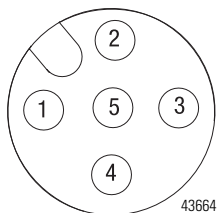
Pin 1 - No Connect
Pin 2 - Input 0A (M12-A)
 Input 1A (M12-B)
Pin 3 - Input 0C (M12-A)
 Input 1C (M12-B)
Pin 4 - Input 0B (M12-A)
 Input 1B (M12-B)
Pin 5 - No Connect

1738-IT2IM12

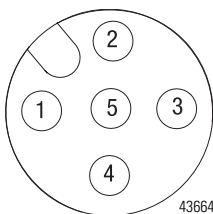
Pin 1 - CJC +
Pin 2 - TC 0 + (M12-A)
 TC 1 + (M12-B)
Pin 3 - CJC -
Pin 4 - TC 0 - (M12-A)
 TC 1 - (M12-B)
Pin 5 - No Connect

IMPORTANT

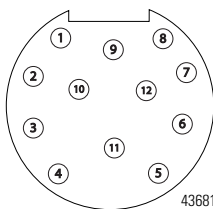
Analog and specialty modules have earth-grounded metal rings. This should be considered when choosing shielded cables and grounding techniques.

1738-232ASCM12

- Pin 1 - No Connect
- Pin 2 - Tx +
- Pin 3 - Rx +
- Pin 4 - Common
- Pin 5 - No Connect

1738-485ASCM12

- Pin 1 - Tx -
- Pin 2 - Tx +
- Pin 3 - Rx +
- Pin 4 - Rx -
- Pin 5 - No Connect

1738-VHSC24M23, 1738-IJM23, and 1738-SSIM23**1738-VHSC24M23**

- Pin 1 - +A
- Pin 2 - -A
- Pin 3 - +B
- Pin 4 - -B
- Pin 5 - +Z
- Pin 6 - -Z
- Pin 7 - Output 0
- Pin 8 - Output 1
- Pin 9 - Return (Com)
- Pin 10 - Return (Com)
- Pin 11 - 24V dc
- Pin 12 - Chassis

1738-IJM23

- Pin 1 - +A
- Pin 2 - -A
- Pin 3 - +B
- Pin 4 - -B
- Pin 5 - +Z
- Pin 6 - -Z
- Pin 7 - Chassis
- Pin 8 - Chassis
- Pin 9 - Return (Com)
- Pin 10 - Return (Com)
- Pin 11 - 24V dc⁽¹⁾
- Pin 12 - Chassis

1738-SSIM23

- Pin 1 - Data +
- Pin 2 - Data -
- Pin 3 - V +
- Pin 4 - V -
- Pin 5 - Shield
- Pin 6 - Input 0
- Pin 7 - Clock +
- Pin 8 - Clock -
- Pin 9 - Return (Com)
- Pin 10 - Return (Com)
- Pin 11 - 24V dc
- Pin 12 - Chassis

⁽¹⁾ Voltage is dependant on field power source. For more information, see the ArmorPoint I/O Field Potential Distributor, Series A, Installation Instructions, publication 1738-IN019.

Specifications

Attribute	Value				
Operating Temperature	-20...60 °C (-4...140°F)				
Operating Voltage	10...28.8V dc ⁽²⁾				
Certifications: ⁽¹⁾ (when product is marked)	<table><tbody><tr><td>CE</td><td>European Union 2004/108/EC EMC Directive, compliant with: EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) EN 61326; Meas./Control/Lab., Industrial Requirements 61000-6-2; Industrial Immunity</td></tr><tr><td>C-Tick</td><td>Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions</td></tr></tbody></table>	CE	European Union 2004/108/EC EMC Directive, compliant with: EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) EN 61326; Meas./Control/Lab., Industrial Requirements 61000-6-2; Industrial Immunity	C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions
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C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions				

⁽¹⁾ See the Product Certification link at www.ab.com for Declarations of Conformity, Certificates, and other certification details.

⁽²⁾ Voltage is dependant on field power source. For more information, see the ArmorPoint I/O Field Potential Distributor, Series A, Installation Instructions, publication 1738-IN019.

ATTENTION



This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR Publication 11. Without appropriate precautions, there may be potential difficulties ensuring electromagnetic compatibility in other environments due to conducted as well as radiated disturbance.

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