



Wiring Diagrams

ArmorPoint 16-Channel I/O Modules with M12 Connectors

Catalog Number 1738-OB16EM12, 1738-IB16DM12

Package List

Your package contains one 1738 ArmorPoint™ module and these wiring instructions

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

Module Publication Number

Module	Publication Number
ArmorPoint 16-Channel I/O Modules (Cat. no. 1738-OB16E19M23, 1738-OB16EM12, 1738-OB16E25DS, 1738-IB16DM12)	1738-IN023

Environmental Specifications

Attribute	Value
Operating temperature	IEC60068-2-1 (Test Ad, Operating Cold), IEC60068-2-2, (Test Bd, Operating Dry Heat) IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20...60° C (-4...140°F)
Storage temperature	IEC60068-2-1 (Test Ad, Non-operating Cold), IEC60068-2-2, (Test Bd, Non-operating Dry Heat) -40...85° C (-40...185°F)
Operating Voltage	10...28.8V dc

Certifications

Certification (when product is marked) ⁽¹⁾	Value
CE	European Union 2004/108/EC EMC Directive, compliant with: EN 61326; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61000-6-4; Industrial Emissions EN 61131-2; Programmable Controllers (Clause 8, Zone A & B)
C-Tick	Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions

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

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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Power, Control and Information Solutions Headquarters

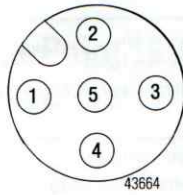
America: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

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1738-IB16DM12



(view into connector)

Pin 1 - SSV 0 (M12-A,B)
 SSV 1 (M12-C,D)
 SSV 2 (M12-E,F)
 SSV 3 (M12-G,H)

Pin 2 - 24V dc input 1 (M12-A)
 24V dc input 3 (M12-B)
 24V dc input 5 (M12-C)
 24V dc input 7 (M12-D)
 24V dc input 9 (M12-E)
 24V dc input 11 (M12-F)
 24V dc input 13 (M12-G)
 24V dc input 15 (M12-H)

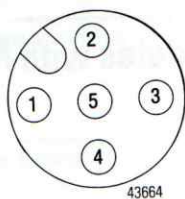
Pin 3 - Common

Pin 4 - 24V dc input 0 (M12-A)
 24V dc input 2 (M12-B)
 24V dc input 4 (M12-C)
 24V dc input 6 (M12-D)
 24V dc input 8 (M12-E)
 24V dc input 10 (M12-F)
 24V dc input 12 (M12-G)
 24V dc input 14 (M12-H)

Pin 5 - Not Used

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1738-OB16EM12



(view into connector)

Pin 1 - Not Used

Pin 2 - 24V dc output 1 (M12-A)
24V dc output 3 (M12-B)
24V dc output 5 (M12-C)
24V dc output 7 (M12-D)
24V dc output 9 (M12-E)
24V dc output 11 (M12-F)
24V dc output 13 (M12-G)
24V dc output 15 (M12-H)

Pin 3 - Common

Pin 4 - 24V dc output 0 (M12-A)
24V dc output 2 (M12-B)
24V dc output 4 (M12-C)
24V dc output 6 (M12-D)
24V dc output 8 (M12-E)
24V dc output 10 (M12-F)
24V dc output 12 (M12-G)
24V dc output 14 (M12-H)

Pin 5 - Not Used