



# Pinout Guide for 1738 ArmorPoint Digital I/O, Series A

### Package Contents

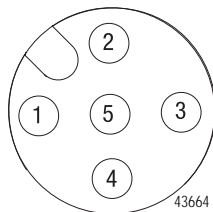
Your package contains:

- one 1738 ArmorPoint™ module
- these pinout guide wiring diagrams

Complete installation instructions are available on line at URL <http://www.literature.rockwellautomation.com>, under I/O. Specific module installation instructions are listed below.

Module	Publication Number
ArmorPoint 24V dc Output Modules (Cat. nos. 1738-OB2EM12, -OB2EPM12, -OB4EM12, -OV4EM12, -OB4EM8, -OB8EM8, -OB8EM12, and -OB8EM23)	1738-IN001
ArmorPoint 24V dc Input Modules (Cat. nos. 1738-IB2M12, -IB4M12, -IV4M12, -IB4M8, -IB8M8, -IV8M8, -IB8M12, -IV8M12, -IB8M23, and -IV8M23)	1738-IN002

### 1738-OB2EM12, 1738-OB2EPM12, 1738-OB4EM12, and 1738-OV4EM12



(view into connector)

Pin 1 - 24V dc

Pin 2 - No Connect

Pin 3 - Common

Pin 4 - Output 0 (M12-A)

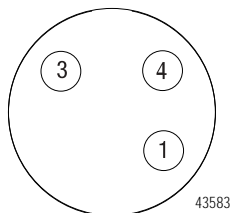
Output 1 (M12-B)

Output 2 (M12-C) (1738-OV4EM12 and-OB4EM12)

Output 3 (M12-D) (1738-OV4EM12 and-OB4EM12)

Pin 5 - No Connect

### 1738-OB4EM8 and 1738-OB8EM8



(view into connector)

Pin 1 -24V dc

Pin 3 -Common

Pin 4 -Output 0 (M8-A)

Output 1 (M8-B)

Output 2 (M8-C)

Output 3 (M8-D)

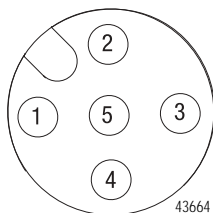
Output 4 (M8-E) (1738-OB8EM8)

Output 5 (M8-F) (1738-OB8EM8)

Output 6 (M8-G) (1738-OB8EM8)

Output 7 (M8-H) (1738-OB8EM8)

### 1738-OB8EM12



(view into connector)

Pin 1 - 24V dc

Pin 2 - Output 1 (M12-A)

Output 3 (M12-B)

Output 5 (M12-C)

Output 7 (M12-D)

Pin 3 - Common

Pin 4 - Output 0 (M12-A)

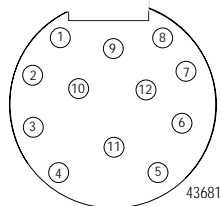
Output 2 (M12-B)

Output 4 (M12-C)

Output 6 (M12-D)

Pin 5 - No Connect

### 1738-OB8EM23



(view into connector)

Pin 1 - Output 0

Pin 2 - Output 1

Pin 3 - Output 2

Pin 4 - Output 3

Pin 5 - Output 4

Pin 6 - Output 5

Pin 7 - Output 6

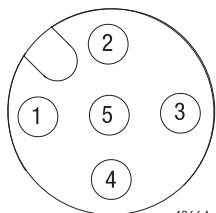
Pin 8 - Output 7

Pin 9 - Return (Com)

Pin 10 - Return (Com)

Pin 11 - 24V dc

Pin 12 - Chassis

**1738-IB2M12, 1738-IB4M12, and 1738-IV4M12**

43664

(view into connector)

Pin 1 -24V dc

Pin 2 -No Connect

Pin 3 -Common

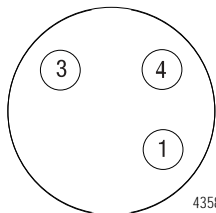
Pin 4 -Input 0 (M12-A)

Input 1 (M12-B)

Input 2 (M12-C) (1738-IB4M12 and -IV4M12)

Input 3 (M12-D) (1738-IB4M12 and -IV4M12)

Pin 5 -No Connect

**1738-IB4M8, 1738-IB8M8, and 1738-IV8M8**

43583

(view into connector)

Pin 1 -24V dc

Pin 3 -Common

Pin 4 -Input 0 (M8-A)

Input 1 (M8-B)

Input 2 (M8-C)

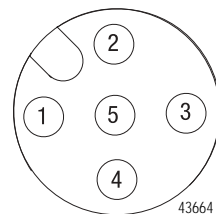
Input 3 (M8-D)

Input 4 (M8-E) (1738-IB8M8 and -IV8M8)

Input 5 (M8-F) (1738-IB8M8 and -IV8M8)

Input 6 (M8-G) (1738-IB8M8 and -IV8M8)

Input 7 (M8-H) (1738-IB8M8 and -IV8M8)

**1738-IB8M12 and 1738-IV8M12**

43664

(view into connector)

Pin 1 - 24V dc

Pin 2 - Input 1 (M12-A)

Input 3 (M12-B)

Input 5 (M12-C)

Input 7 (M12-D)

Pin 3 - Common

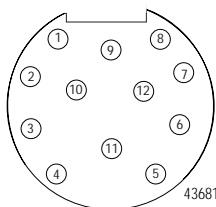
Pin 4 - Input 0 (M12-A)

Input 2 (M12-B)

Input 4 (M12-C)

Input 6 (M12-D)

Pin 5 - No Connect

**1738-IB8M23 and 1738-IV8M23**

43681

(view into connector)

Pin 1 - Input 0

Pin 2 - Input 1

Pin 3 - Input 2

Pin 4 - Input 3

Pin 5 - Input 4

Pin 6 - Input 5

Pin 7 -Input 6

Pin 8 -Input 7

Pin 9 -Return (Com)

Pin 10 -Return (Com)

Pin 11 -24V dc

Pin 12 -Chassis

## Specifications

Operating Temperature	-20 to 60°C (-4 to 140°F)
Operating Voltage	10-28.8V dc
Output Current	1738-OB2E - 1.0 A per output (not to exceed 2 A per module) 1738-OB4E and 1738-OB8E - 1.0 A per output (not to exceed 3 A per module) 1738-OB2EP - 2.0 A per output (4.0 A maximum per module) 1738-OV4E - 1.0 A per output (not to exceed 4.0 A per module)
Certifications: <sup>1</sup> (when product is marked)	c-UL-us UL Listed Industrial Control Equipment, certified for US and Canada  CE European Union 89/336/EEC EMC Directive, compliant with: EN 61000-6-4; Industrial Emissions EN 50082-2; Industrial Immunity EN 61326; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity  C-Tick Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions

1. See the Product Certification link at [www.ab.com](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.

ArmorPoint is a trademark of Rockwell Automation.

[www.rockwellautomation.com](http://www.rockwellautomation.com)

#### Power, Control and Information Solutions Headquarters

Americas: 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

Publication 1738-WD001D-EN-P - November 2004

PN 957928-94

Supersedes Publication 1738-WD001C-EN-P - July 2004

Copyright © 2004 Rockwell Automation, Inc. All rights reserved. Printed in the U.S.A.