

# Pinout Guide for 1732 ArmorBlock 16-point I/O, Series A

Catalog Numbers 1732D-IB16M12M12, 1732D-OB16M12M12, 1732D-16CFGM12M12, 1732D-IB16M12MINI, 1732D-OB16M12MINI, 1732D-16CFGM12MN, 1732D-IB161212W, 1732D-16CFG1212W, 1732P-IB16M12, 1732P-OB16M12, 1732P-16CFGM12, 1732E-IB16M12, 1732E-OB16M12, 1732E-16CFGM12, 1732E-IB16M12W, 1732E-16CFGM12W

### Package Contents

Your package contains one 1732 ArmorBlock module and these wiring instructions.

For complete installation instructions, refer to the Module Publication Number table and visit [www.literature.rockwellautomation.com](http://www.literature.rockwellautomation.com).

### Module Publication Number

Module	Pub. No.
DeviceNet ArmorBlock 16-Point I/O, Series A (Includes WeldBlock catalog numbers)	1732D-IN002
PROFIBUS ArmorBlock 16-Point I/O, Series A	1732P-IN002
EtherNet/IP ArmorBlock 16-Point I/O, Series A	1732E-IN001

**ATTENTION**

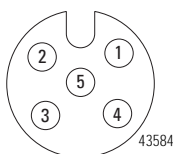
Two sets of mounting holes are used to mount the module directly to a panel or machine. Mounting holes accommodate #6 (m3) pan head screws. The torque specification is 0.64 Nm (6 in-lb).

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### DeviceNet Connectors

#### 1732 DeviceNet Micro-style

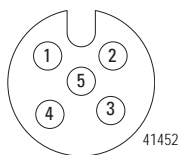
Micro-style Network In Male Connector



(View into Connector)

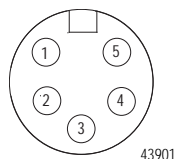
Pin 1 Drain  
Pin 2 V+  
Pin 3 V-  
Pin 4 CAN\_H  
Pin 5 CAN\_L

Micro-style Network Out Female Connector



#### 1732 DeviceNet Mini-style

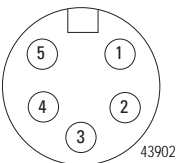
Mini-style Network In Male Connector



(View into Connector)

Pin 1 Drain  
Pin 2 V+  
Pin 3 V-  
Pin 4 CAN\_H  
Pin 5 CAN\_L

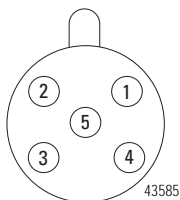
Mini-style Network Out Male Connector



## PROFIBUS Connectors

### 1732 PROFIBUS Micro-style

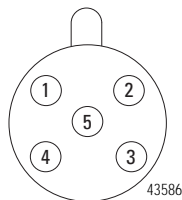
Network In Male Connector



(View into Connector)

Pin 1 +5V dc  
Pin 2 A Signal  
Pin 3 GND  
Pin 4 B Signal  
Pin 5 Shield

Network Out Female Connector



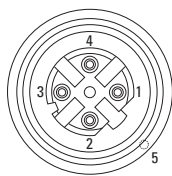
#### IMPORTANT

Do not use PROFIBUS T-connectors with these modules.

## EtherNet/IP Connector

### 1732 Ethernet/IP Micro-style

Micro-Style Network In Female Connector



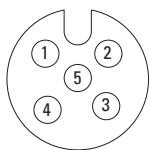
(View into Connector)

Pin 1 M12\_Tx+  
Pin 2 M12\_Rx+  
Pin 3 M12\_Tx-  
Pin 4 M12\_Rx-  
Pin 5 Connector Shell Shield GND

## DeviceNet, PROFIBUS, and EtherNet/IP I/O Connectors

### 5-pin Female Micro-style

Micro-style Input Connector

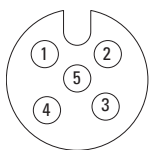


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(View into Connector)

Pin 1 Sensor Source Voltage  
Pin 2 Input B  
Pin 3 Return  
Pin 4 Input A  
Pin 5 PE

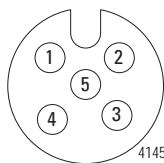
Micro-Style Output Connector



(View into Connector)

Pin 1 Not Used  
Pin 2 Output B  
Pin 3 Return  
Pin 4 Output A  
Pin 5 PE

Self-configuring Connector



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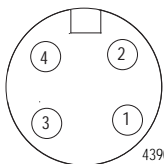
(View into Connector)

Pin 1 Sensor Source Voltage  
Pin 2 Input or Output B  
Pin 3 Return  
Pin 4 Input or Output A  
Pin 5 PE

## DeviceNet and EtherNet/IP Auxiliary Power Connector

### 4-pin Mini-style

Male Connector



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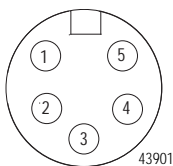
(View into Connector)

Pin 1 Output Power+  
Pin 2 Sensor/MDL Power+  
Pin 3 Sensor/MDL Power-  
Pin 4 Output Power-

## PROFIBUS Auxiliary Power Connector

### 5-pin Mini-style

Male Connector



(View into Connector)

Pin 1 Auxiliary Output Power-

Pin 2 Sensor/Network Power-

Pin 3 Earth Ground

Pin 4 Sensor/Network Power+

Pin 5 Auxiliary Output Power+

## Specifications

### Environmental

Attribute	Value
Temperature, operating	-20...60 °C (-4...140 °F)
Ambient temperature rating (UL)	60 °C (140 °F)
Operating voltage	11...30V DC
Output current	1732x-OB16y <sup>(1)</sup> - 2 A per output 1732x-16CFGy - 0.5 A per output
Enclosure type rating	Meets IP65/66/67/69K (when marked), and NEMA 4X/6P (1732D-IB16M12M12, 1732D-OB16M12M12, 1732D-16CFGM12M12, 1732D-IB16M12MINI, 1732D-OB16M12MINI, 1732D-16CFGM12MN, 1732P-IB16M12, 1732P-OB16M12, 1732P-16CFGM12, 1732E-IB16M12, 1732E-OB16M12, 1732E-16CFGM12) or NEMA 4X (1732D-16CFG1212W, 1732D-IB161212W, 1732E-16CFGM12W, 1732E-IB16M12W) with receptacle dust caps or cable termination

<sup>(1)</sup> The x represents all networks. The y indicates that the output current also applies to WeldBlock catalog numbers.

### Certifications

Certification (when product is marked) <sup>(1)</sup>	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E322657 .
CE	European Union 2004/108/EC EMC Directive, compliant with: EN 61326-1; 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 CISPR11; Industrial Emissions
ODVA	ODVA conformance tested to DeviceNet specifications
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications

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

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**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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## **Notes:**

## Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

## Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States	1.440.646.3434 Monday – Friday, 8 a.m. – 5 p.m. EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

## New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor in order to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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

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