Wiring Diagrams

ArmorBlock 2-Port EtherNet with Diagnostics and QuickConnect
Catalog Numbers 1732E-12X4M 12QCDR, 1732E-12X4M 12P5QCDR

Parts List
Your package contains one 1732E ArmorBlock™ module and these pinout guide wiring instructions.
For complete installation instructions, refer to the Module Publication Number table and visit http://www.rockwellautomation.com/literature/.

Module Publication Number

<table>
<thead>
<tr>
<th>Module</th>
<th>Publication Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1732E ArmorBlock 2-Port EtherNet/IP Modules with QuickConnect</td>
<td>1732E-IN010</td>
</tr>
</tbody>
</table>

**ATTENTION:** Two sets of mounting holes are used to mount the module directly to a panel or machine. Mounting holes accommodate #8 (M 4) pan head screws. The torque specification is 1.13 Nm (10 lb-in.).

I/O Connectors

**Micro-style 5-Pin Input Female Connector**

(View into connector)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sensor source voltage</td>
</tr>
<tr>
<td>2</td>
<td>Input B</td>
</tr>
<tr>
<td>3</td>
<td>Return</td>
</tr>
<tr>
<td>4</td>
<td>Input A</td>
</tr>
<tr>
<td>5</td>
<td>PE</td>
</tr>
</tbody>
</table>

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2 ArmorBlock 2-Port EtherNet with Diagnostics and QuickConnect

**Micro-style 5-Pin Output Female Connector**

(View into connector)
- Pin 1: Not used
- Pin 2: Output B
- Pin 3: Return
- Pin 4: Output A
- Pin 5: PE

**EtherNet/IP Connector**

**D-Code Micro Network Female Connector**

(View into connector 1)
- Pin 1: M12_Tx+
- Pin 2: M12_Rx+
- Pin 3: M12_Tx-
- Pin 4: M12_Rx-
- Pin 5: Connector shell

(View into connector 2)
- Pin 1: M12_Rx+
- Pin 2: M12_Tx+
- Pin 3: M12_Rx-
- Pin 4: M12_Tx-
- Pin 5: Connector shell

**Auxiliary Power Connector**

**Mini-style 4-Pin Receptacles**

(View into receptacle)
- Male Input: Pin 1: Output power+
- Pin 2: Sensor/M DL power+
- Pin 3: Sensor/M DL power-
- Pin 4: Output power-

(View into receptacle)
- Female Output: Pin 1: Output power+
- Pin 2: Sensor/M DL power+
- Pin 3: Protective Earth
- Pin 4: Sensor/M DL power-
- Pin 5: Output power+

**Mini-style 5-Pin Receptacles**

(View into receptacle)
- Male Input: Pin 1: Output power±
- Pin 2: Sensor/M DL power-
- Pin 3: Protective Earth
- Pin 4: Sensor/M DL power+
- Pin 5: Output power+

(View into receptacle)
- Female Output: Pin 1: Output power-
- Pin 2: Sensor/M DL power-
- Pin 3: Protective Earth
- Pin 4: Sensor/M DL power+
- Pin 5: Output power+

**TIP** The ground for both module power and output power are shared.

Publication 1732E-WD04D-EN-P - October 2015
## Specifications

### Environmental Specifications

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature, operating</td>
<td>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)</td>
</tr>
<tr>
<td>Temperature, ambient, max</td>
<td>60 °C (140 °F)</td>
</tr>
<tr>
<td>Voltage, operating</td>
<td>12... 30V DC</td>
</tr>
<tr>
<td>Output current, per port</td>
<td>0.5 A</td>
</tr>
<tr>
<td>Enclosure type rating</td>
<td>Meets IP65/66/67/69K (when marked), and Type 4X Indoor Use Only, with receptacle dust caps or cable termination</td>
</tr>
</tbody>
</table>

### Certifications

<table>
<thead>
<tr>
<th>Certification (when product is marked)(1)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE</td>
<td>European Union 2004/108/EC EM C 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 &amp; B)</td>
</tr>
<tr>
<td>C-Tick</td>
<td>Australian Radiocommunications Act, compliant with: AS/NZS CISPR 11; Industrial Emissions</td>
</tr>
<tr>
<td>EtherNet/IP</td>
<td>ODVA conformance tested to Ethernet/IP specifications.</td>
</tr>
<tr>
<td>KC</td>
<td>Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3</td>
</tr>
</tbody>
</table>

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At [http://www.rockwellautomation.com/support/](http://www.rockwellautomation.com/support/), 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://www.rockwellautomation.com/support/](http://www.rockwellautomation.com/support/).

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.

<table>
<thead>
<tr>
<th></th>
<th>United States</th>
<th>Outside United States</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.440.646.3434</td>
<td>Please contact your local Rockwell Automation representative for any technical support issues.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th></th>
<th>United States</th>
<th>Outside United States</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
<td>Please contact your local Rockwell Automation representative for the return procedure.</td>
</tr>
</tbody>
</table>

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