

# ArmorBlock Dual-Port EtherNet/IP 8-Point Digital Modules

Catalog Numbers 1732E-IB8M8SOER, 1732E-OB8M8SR, 1732E-8CFGM8R

## 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://literature.rockwellautomation.com>.

## Module Publication Number

Module	Publication Number
1732E ArmorBlock Dual Port EtherNet/IP Digital Modules Installation Instructions	<a href="#">1732E-IN007</a>



**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 0.68 Nm (6 lb-in.).



**ATTENTION:** To comply with the CE Low Voltage Directive (LVD), this equipment and all connected I/O must be powered from a source compliant with the following:  
Safety Extra Low Voltage (SELV) or Protected Extra Low Voltage (PELV).

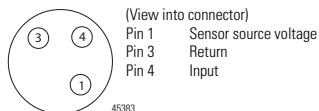


**ATTENTION:** To comply with UL restrictions, this equipment must be powered from a source compliant with the following: Limited Voltage.

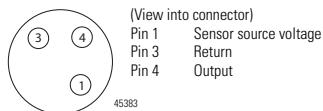
**ATTENTION:** The device meets UL Type 1 Enclosure rating.

## 2 ArmorBlock Dual-Port EtherNet/IP 8-Point Digital Modules

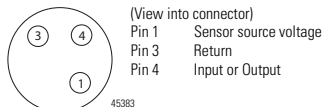
### I/O Connectors



**Pico-style 3-Pin Input Female Connector**



**Pico-style 3-Pin Output Female Connector**



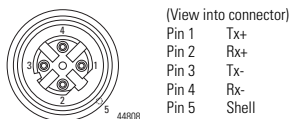
**Pico-style 3-Pin Self-configuring Female Connector**



**ATTENTION:** Sensors/actuators power should not be supplied externally.

### EtherNet/IP Connector

#### D-Code M12 Micro Network Female Connector



#### **IMPORTANT**

Use the 1585D-M4DC-H: Polyamide small body unshielded mating connectors for the D-Code M12 female network connector.

Note that the distance between the center of each Ethernet connector is 16.2 mm. Rockwell Automation recommends the use of suitable cable based on this measurement. Some of the recommended cables are 1585D-M4TBJM-x and 1585D-M4TBDM-x for daisychains.



**ATTENTION:** Make sure all connectors and caps are securely tightened to properly seal the connections against leaks and maintain IP enclosure type requirements.

**IMPORTANT** Use two twisted pair CAT5E UTP or STP cables.

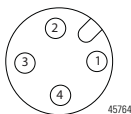
D-Code M12 Pin	Wire Color	Signal	8-way Modular RJ45 Pin
1	White-orange	TX+	1
2	White-green	RX+	3
3	Orange	TX-	2
4	Green	RX-	6

**IMPORTANT** The maximum current that any pin on the power connectors can carry is 4 A.

### Power Connectors

#### Micro-style 4-Pin Input Male Receptacle

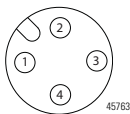
Male Input



(View into receptacle)

- Pin 1 Auxiliary power+
- Pin 2 Module power+
- Pin 3 Module power-
- Pin 4 Auxiliary power-

Female Output



## Specifications

### Environmental Specifications

Attribute	Value
Temperature, operating	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20...60 °C (-4...140 °F)
Temperature, ambient, max	60 °C (140 °F)
Voltage, power, max	30V DC
Voltage, power, min	12V DC
Output current	0.5A per output, up to 4A per module

## Environmental Specifications

Attribute	Value
Pilot Duty Rating	DC-14
Enclosure type rating	Meets IP65/66/67/69K



**ATTENTION:** This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR 11. Without appropriate precautions, there may be difficulties with electromagnetic compatibility in residential and other environments due to conducted and radiated disturbance.

## Certifications

Certification (when product is marked) <sup>(1)</sup>	Value
c-UR-us	UL Recognized Component 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 CISPR 11; Industrial Emissions
EtherNet/IP	ODVA conformance tested to Ethernet/IP specifications.
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3

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

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