



## ArmorBlock™ I/O Machine Mounted I/O 1792 Series

### Product Profile



ArmorBlock I/O from Allen-Bradley is a family of I/O products designed to work in a highly distributed I/O environment. Initial configurations consist of 24 Vdc in 4-, 8- or 16-point inputs, 4-point outputs and 2 in/2 out combination block modules. The outputs are rated at 2 amps and are electronically protected.

ArmorBlock I/O is an adapter, power supply, rack and I/O – all in one industrially sealed package designed to withstand harsh factory environments. Because ArmorBlock I/O products are sealed in a chemical resistant package, there is no need to purchase and install enclosures, significantly reducing installation time and costs. The products are rated NEMA 6P, IP 67, can withstand up to 1200 PSI washdowns, and have an operating temperature range of -25 to 70 degrees Celsius.

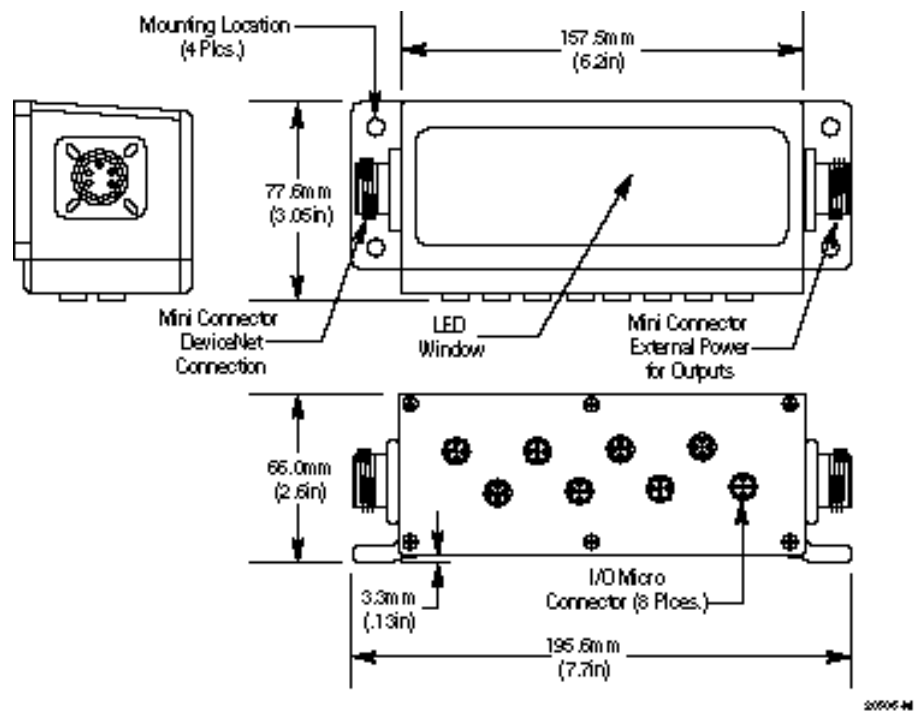
Only one network cable is run from the processor to the "blocks" of I/O – rather than one wire from each I/O point, which helps reduce installation time.

## Features

- Low cost highly distributed I/O
- Compatible with DeviceNet™ Scanners
- Small compact size of total package for I/O with built-in I/O adapter and power supply
- Helps eliminates enclosure cost because of sealed housing rated for IP 67 and NEMA 6P
- Blocks can be mounted vertically or horizontally without de-rating

## Attributes

- Sloped top and recessed rear to help reduce entrapment of water and debris
- Bottom location of connections enables ease of cable installation, routing and protects I/O cable from physical damage
- Software configuration, no mechanical switches to set
- External mounting tabs for ease of installation
- All external connections; sealed unit eliminates the need for opening the box
- Mounting dimensions are molded on the enclosure



## Reduce Installation Cost

- Help reduce wiring errors due to micro-connectors pre-wired on the cables
- Auto baud feature automatically recognizes the network's data rate which eliminates network setup errors
- The hardened enclosure allows machine mounting thus eliminating long I/O cable runs

## Highly Distributed

- Low density configurations
- Allows movement of I/O closer to its devices and the application

## Industrially Sealed

- Self contained unit, enclosure not required
- Hardened block is water and dust resistant

## DeviceNet Connectivity

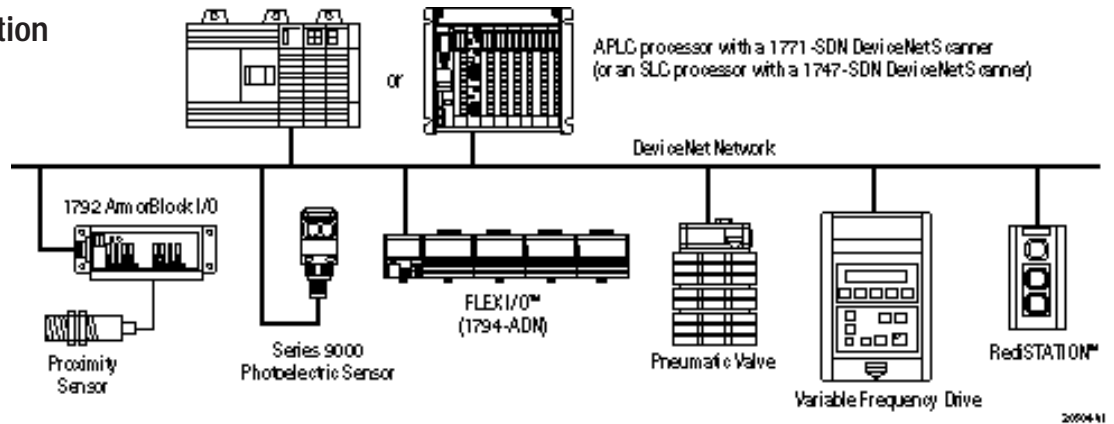
- Open network allows ArmorBlock I/O to be used with traditional as well as non-traditional control systems

## Typical Application

Applications that require highly distributed I/O:

- material handling
- conveyors
- transfer lines

## Typical Configuration



## Specifications

### Shock:

Operating	30g peak acceleration, 11 (±1) ms pulse width
Non-Operating	50g peak acceleration, 11 (±1) ms pulse width

### Vibration

Tested 10g @ 10-500Hz per IEC 68-2-6

### Weight

1.2 lbs (0.5kg)

### Certifications

- UL
- CSA Class I, Div II
- CE Marked

Catalog Number	Inputs				Outputs			I/O Block Power Source <sup>2</sup>	Clearance Dimensions (rounded up) HxWxD
	Operating Voltage /Type	Signal Delay	Min Off-state Current	Number of Inputs	Operating Voltage /Type	Max Current Output	Number of Outputs		
1792-IB4A <sup>1</sup>	10-30V dc (sinking)	selectable per input for <1ms, 2ms, 4ms, 8ms, or 16ms (<1ms is default)	1.5mA	4	-	-	0	11-25V dc 300mA*	76x158x67 mm (3.0x6.2x2.6 in)
1792-IB8A <sup>1</sup>				8			0	11-25V dc 500mA*	
1792-IB16A <sup>1</sup>				16			0	11-25V dc 900mA*	
1792-IB2XOB2EA <sup>1</sup>				2			2	11-25V dc 200mA*	
1792-OB4EA <sup>1</sup>	-	-	-	0	19-30V dc source	4	11-25V dc 100mA*		

<sup>1</sup>The "A" suffix designates an aluminum connector shell.

<sup>2</sup>Sensor source voltage is the same as the I/O block power source, which comes thru the DeviceNet connection. Up to 50mA per input point is available

\*Denotes Full sensor load; 100mA if no powered sensors.

## For More Information

Allen-Bradley, a Rockwell Automation business, provides a broad range of industrial automation control products for manufacturing and process industries. If you would like more information about ArmorBlock I/O or any of our products and services, contact your local Allen-Bradley sales office or appointed distributor, write:

Allen-Bradley Company, Inc.  
Promotional Programs,  
1 Allen-Bradley Drive,  
Mayfield Heights, OH 44124.

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### Worldwide representation



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