



## IO-Link Master DR-8-EIP

Part Number: 99590-6



### KEY FEATURES AND BENEFITS

- Eight channel IO-Link Master to EtherNet/IP™ with additional digital inputs on every port allowing for a possible 10 DI ports
- Screw terminal connectors for IO-Link, Power, and Digital IO
- Two DI/DO ports
- EtherNet/IP™ and Modbus TCP access to IO-Link process, event, and service data
- EtherNet/IP™ Class 1 (Implicit) and Class 3 (Explicit) interfaces
- IP20 DIN rail mount enclosure
- Wide operating temperature (0° to +70°C)
- Powerful web GUI for configuration and diagnostics, including:
  - IO-Link device management using the IO-Link device manufacturers IODD file for easy device configuration
  - Automatic data storage (upload and download)
  - Manual data storage (upload and download)
  - Device validation
  - Data validation
- LEDs for device, network, and port status
- Works with PortVision DX
- IO-Link V1.1 compatibility
- IO-Link COM1, COM2 and COM3 support (230K baud rate)
- Write-to-Tag/File, Read-from-Tag/File
- PLC access to IO-Link ISDU blocks without complex programming



### PRODUCT DESCRIPTION

Control's IO-Link Master DR-8-EIP combines the benefits of the IO-Link standard with the popular industrial EtherNet/IP protocol by providing a gateway that's a streamlined bridge between the field level sensor network and the industrial EtherNet/IP backbone, making retrofitting or expansion simple.

The IO-Link Master easily installs on a standard DIN rail and incorporates two Fast Ethernet ports, eight IO-Link ports, two DI/DO ports and two DI ports. This product is designed with industrial grade components and redundant power inputs to make it exceptionally reliable for critical applications. The IO-Link Master is easily integrated into a system network, and is compatible with existing and new industrial Ethernet environments.

# IO-LINK MASTER SPECIFICATIONS

## HARDWARE

Network Interfaces	10/100BASE-TX
Enclosure	Polyamide
Installation and Grounding Method	DIN rail
Network Protocols	EtherNet/IP, Modbus/TCP (slave)
Connectors	DI/DO, Ethernet, IO-Link, Power
LED Indicators	Power, Module Status, Network Status, IO-Link, DI and Ethernet Port Status
Dimensions	4.12" x 4.47" x 1.78" 105 x 114 x 45 mm
Weight	0.57 lbs 0.26 kg
Packaging/Shipping Information	
Size	10.2" x 2.7" x 7.5" 260 x 68 x 190 mm
Weight	1.05 lbs 0.48 kg

## ETHERNET INTERFACE SPECIFICATIONS

Connector Type	RJ45
Number of Ports	2
Ethernet Specification	10/100BASE-TX
Standards	IEEE802.3: 10BASE-T IEEE 802.3u: 100BASE-TX
Cable Types	Unshielded twisted pair
IPv4 Addressing	Yes

## IO-LINK INTERFACE SPECIFICATIONS

Connector Type	Screw Terminal
Number of Ports	8
Configurations per port	
IO-Link: = 1	
DI (SIO mode) = 1	
DO (SIO mode) = 1	
DI (dedicated) = 1	
Transfer Rates	
4.8K (COM1)	
38.4K (COM2)	
230.4K (COM3)	
Baud Rate Recognition	Automatic
Cable Length (Max.)	20m

## DIGITAL INPUTS/OUTPUTS

Connector Type	Screw Terminal
Number of Ports	2
Configurations per port	
DI/DO (configurable) = 1	
DI (dedicated) = 1	
Cable Length (Max.)	30m

## DIGITAL INPUTS

Connector Type	Screw Terminal
Number of Ports	2
Cable Length (Max.)	30m

## DIGITAL OUTPUTS

Actuator (Sensor) Current Load (Max.)	200mA
Lamp Load (Max.)	4W
Over Load and Short Circuit Protection	Yes
Switching Output	PNP, NPN

## ELECTRICAL SPECIFICATIONS

Device	
DC Input Voltage Range	18-30VDC
Current Consumption (Max.)	2A @ 24VDC
Current Consumption (w/out devices)	100mA
Power Consumption	2.4W
Sensor Supply Connectors 1 to 4 (Max.)	200mA/connector
Short Circuit Protection for IO-Link Connectors	300mA
Power Connectors	
Input (2)	Screw terminal

## ENVIRONMENTAL SPECIFICATIONS

Air Temperature	
System On	0°C to +70°C
System Off	-40°C to +70°C
Operating Humidity (non-condensing)	10% to 95%
Storage Humidity (non-condensing)	10% to 95%
Shock/Vibrations	
EN60068-2-6	
EN60068-2-27	

## EXPORT INFORMATION

ECCN	5A992
Schedule B Number	8517.62.0050

## WHAT IS IO-LINK?

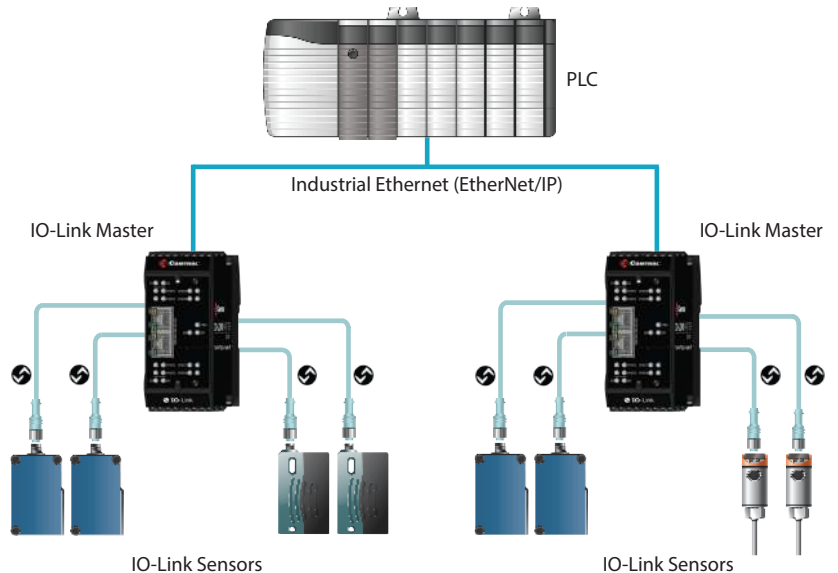
IO-Link is a point-to-point serial communication protocol used to communicate with sensors and/or actuators. This increasingly deployed protocol extends the globally recognized PLC standard IEC 61131, which allows three types of data to be exchanged: process data, service data and events.

Major sensor manufacturers and industrial manufacturing companies, including Comtrol, have joined the international IO-Link Consortium to promote the IO-Link communication protocol due to its many advantages over standard I/O.

## WHY IO-LINK?

IO-Link is a powerful, yet simple, protocol with wide support in the industry. There are many reasons to use IO-Link. In almost any place that a digital or analog sensor is used, an IO-Link sensor can provide the end user significantly more information, configurability and control. From installation to operation and even maintenance of an automation system, IO-Link provides clear advantages over legacy solutions.

## IO-Link Master common configuration networking diagram



### Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

### Sales Support

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### Technical Support

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