IO-Link Master 4-EIP

Part Number: 99570-8

KEY FEATURES AND BENEFITS

- Four channel IO-Link Master to Industrial EtherNet/IP™
- Modbus access to IO-Link sensor service and process data (see below)
- EtherNet/IP Class 1 and Class 3
- Rugged IP67 housing with M12 connectors for harsh environments
- Windows app and web GUI for configuration and diagnostics
- Wide operating temperature (0° to 55°C)
- LEDs for device, network and port status
- Additional digital input on every port
- Powerful web configuration
- IO-Link V1.1 compatibility
- IO-Link COM1, COM2 and COM3 support (230K throughput)
- Slim-line machine-mount installation
- RoHS2 compliant under CE
- Innovative QuickLinx technology

PRODUCT DESCRIPTION

Comtrol's IO-Link Master 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 features a rugged IP67 slim-line design incorporating two Fast Ethernet ports and four IO-Link ports with Class A M12 connectors. This product is for industrial applications with its machine-mount design using industrial grade components. The IO-Link Master is easily integrated into factory automation networks and is compatible with both IO-Link and digital IO sensor technologies.

connect. communicate. control.

IO-LINK MASTER SPECIFICATIONS

HARDWARE

Network Interfaces 10/100BASE-TX
Enclosure
  Molded ABS (potted)
Installation and Grounding Method
  Machine or panel mount - two-hole M4 or #8 screws
Network Protocols
  EtherNet/IP, Modbus/TCP (slave)
Connectors
  4 - IO-Link
  2 - Ethernet
  2 - Power
LED Indicators
  Power, Module Status, Network Status, IO-Link, DI and Ethernet
  Port Status
Dimensions 6.07" x 2.04" x 1.68"
  154 x 51.8 x 42.7 mm

ETHERNET INTERFACE SPECIFICATIONS

Connector Type
  Female, M12 D-coded, 4-pin
Number of Ports 2
Ethernet Specification 10/100BASE-TX
Standards
  IEEE802.3: 10BASE-T
  IEEE 802.3u: 100BASE-TX
Auto-MD/MDI-X Yes
Auto-Negotiation Yes
Link Distance 100 m
Cable Types Unshielded twisted pair
IPv4 Addressing Yes

IO-LINK INTERFACE SPECIFICATIONS

Connector Type
  Female, M12 D-coded, 4-pin
Number of Ports 4
Transfer Rates
  4.8K (COM1)
  38.4K (COM2)
  230.4K (COM3)
Baud Rate Recognition Automatic
Cable Length (Max.) 20m

DIGITAL INPUTS

Connector Type
  Female, M12 A-coded, 5-pin
Number of Ports 4
Input Characteristics Type 2
Cable Length (Max.) 30 m

DIGITAL OUTPUTS

Connector Type
  Female, M12 A-coded, 5-pin
Number of Ports 4
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 (1)
    Male M12 A-coded 5-pin
  Output (1)
    Female M12 A-coded 5-pin

ENVIRONMENTAL SPECIFICATIONS

Air Temperature
  System On 0ºC to +55ºC*
  System Off -40ºC to +70ºC
Operating Humidity (non-condensing)
  10% to 95%
Storage Humidity (non-condensing)
  10% to 95%
Shock/Vibrations
  EN60068-2-6
  EN60068-2-27
Enclosure Rating
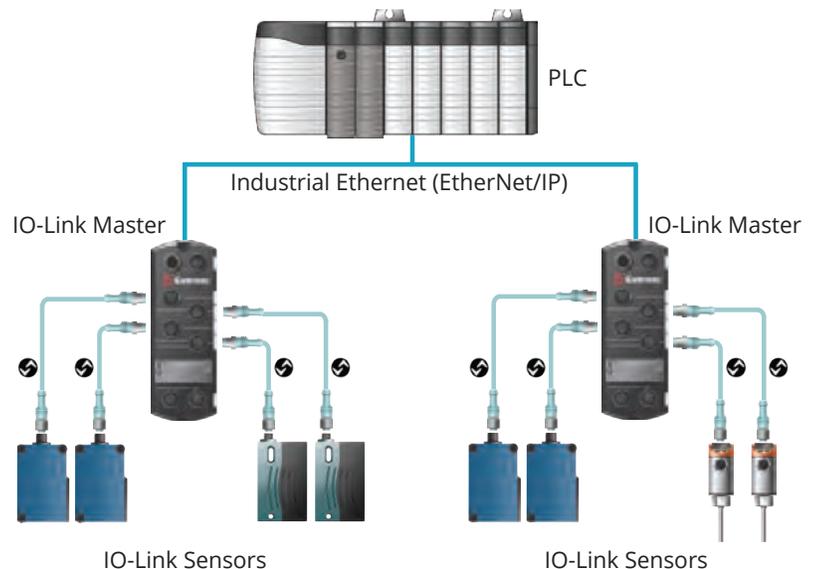 IP67 (IEC 60529)

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 resons 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

PLC

Industrial Ethernet (EtherNet/IP)

IO-Link Master   IO-Link Master

IO-Link Sensors   IO-Link Sensors

IO-LINK MASTER

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