

MATERIAL HANDLING WITH IO-LINK

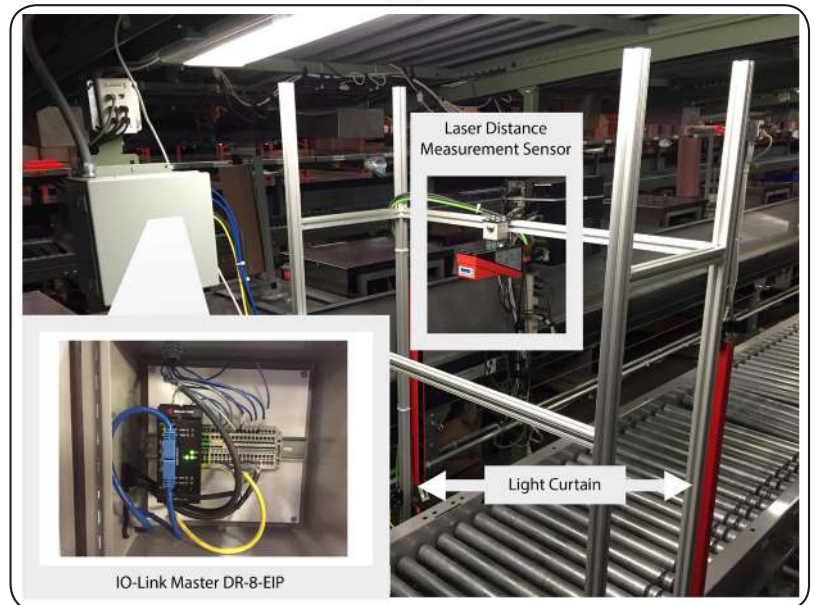
A large material handling systems integrator in the Midwestern U.S. had a customer that was experiencing difficulty along their 24V powered roller conveyor system. Needing a solution that could eliminate this from continuing in the future, the industrial supplier turned to a systems integrator and Control's IO-Link Master.

The customer is a large industrial supplier and uses small and large plastic totes to transport material throughout their factory. At specified locations along the line, the totes are empty and need to be moved to a stacker machine. Occasionally these totes entered the stacker machine with material left inside, causing it to jam and interrupt production.

The system integrator opted to implement a solution using Control's IO-Link Master DR-8-EIP to control Leuze Electronic IO-Link enabled light curtains and laser distance measuring sensors. Now as the totes pass along the conveyor line the light curtains, located along the side, determine how the totes are stacked. This information is then relayed through the IO-Link master to the Rockwell ControlLogix Programmable Logic Controller (PLC). The laser distance measuring sensor, found above the conveyor line, scans the inside of the totes for material left inside. When the tote is emptied, it proceeds along the line and is stacked by the stacker machine; if the scanners determine there is any material left inside the tote, it is not stacked and is sent to a rejection area. As a result of this implementation, the industrial supplier has increased efficiency and prevented potential damage to their stacker machines.

The IO-Link Master DR-8-EIP offers:

- Eight IO-Link ports, two dedicated Digital Input/ Digital Output ports, and ten Digital Input ports.
- With this configuration, the IO-Link Master allows the flexibility to support up to 20 device connections.
- The DR-8-EIP is simple to install and allows access to IO-Link process, service, and event data through EtherNet/IP, Modbus TCP, and Profinet IO.
- Control's IO-Link Master features **Multi-Link Technology**, which allows the user to simultaneously communicate with EtherNet/IP and Modbus TCP protocols.



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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 potential of 10 DI connections
- 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.

Warranty Information

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

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