Brad® EtherNet/IP* HarshIO Analog Modules for Roller Drives†

molex

Ideal for many material handling applications, Brad ** EtherNet/IP* HArshIO Analog Modules provide an IP67 rated solution for interfacing industrial controllers with conveyor rollers in harsh duty environments

Features and Advantages

M12 Ultra-Lock Interface

Allow fast connections and changeovers. Reduce time to connect the cordsets to the module

Roller Drive Connectivity Connect up to 4 roller

Connect up to 4 roller drives†. Control start/stop and speed of each roller



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IP67 Housing

To use directly on the machine. Dust, water and vibration resistant. Large temperature range. No need of protective cabinet

Push Buttons

IP address setting (Static, DHCP, Stored)

Diagnostics

Diagnostic capabilities via fieldbus messaging. Visible diagnostic LEDs provide maintenance personnel with the ability to easily determine I/O, module and network status

Display

4-digits scrolling information. Status information (Ipconfig, PLC connection, I/O diagnostic

Integrated 2-Port Switch

Daisy-chain wiring possible wire entire application without switches achieve cost savings

Fieldbus Ready

ODVA certified. Upload EDS file from module using Rockwell RSLinx

Applications

Industrial Automation - Conveying

Food processing

Warehousing & Distribution

Industrial production

Express parcel, postal and courier sector

Airport logistics

Baggage handling

Supermarket



Baggage handling and sorting



E-Commerce distribution centers



Plant conveying system

 $^{^{\}star}$ EtherNet/IP is a trademark of the Open DeviceNet Vendor Association (ODVA)

[†] INTERROLL EC310 Roller Drives

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Specifications

REFERENCE INFORMATION

Hardware

IP67 housing

Dimensions: 600 x 220 x 20mm (2.36" x 8.66" x 0.78")

Operating Temperature: -25 to +70°C Storage Temperature: -40 to +90°C

Relative Humidity: 10 to 95%, non-condensing
Housing Material: PBT VALOX 420 SEO Black 7701

Power Connectors

Power In: Male Mini-Change™, 5-pole Power Out: Female, Mini-Change™, 5-pole Protected against power crossing

I/O Connectors

Female, Ultra-Lock™ M12, A-Coded, 5-pole

Fieldbus Connectors

Female, Ultra-Lock™ M12, D-Coded, 4-pole

Ethernet Switch

2-port, 10/100 Mbps (auto-negotiation), full duplex, Storm Protection

Diagnostic LED per port (Link / Speed / Activity)

Fieldbus

EtherNet/IP* Adapter RPI (min): 1 ms

Quick Connect: Yes (Class A)

ACD: Yes

IP Address Capabilities: DHCP, Static Address, Stored (EtherNet/IP* 0xF5 / 0xF6 objects)

EDS file

Firmware upgradable

Power Requirements

Module logic/input power: 24V DC (-15/+20%)

Module auxiliary output power: 24V DC (-15/+20%)

Diagnostic LEDs (Logic/Input + Output) with detection of low voltage operation

Input Digital Channel(s)

Connector: Female, Ultra-Lock™ M12, A-Coded, 5-pin Input type: PNP, Sinking, 2/3-wire sensors
Sensor power supply: 200 mA at 20°C
Electronic short circuit protection
Diagnostic LED

Input delay: 5ms
Output Digital Channel(s)

Connector: Female, Ultra-Lock $^{\!{}^{\mathsf{TM}}}$ M12, A-Coded, 5-pole

Output type: PNP, Sourcing

Output current per channel: 2.0A per as rated, 5.0A as peak

Maximum output current: 9.0A at 25°C
Electronic short circuit protection
Switching frequency: 200Hz
Switch on/off power supply of Roller Drive EC310

Output Analog Channel(s)

Speed direction control of EC310 Roller Drives Output current: 1.0mA per Channel 6 steps for speed control for EC310 Roller Drives 0-24V capability

Shock and Vibration

MIL-STD-202F, method 204D, condition A (Vibration) MIL-STD-202F, method 213B, condition B (Mechanical Shock)

MIL-STD-1344A (Thermal Shock) Regulatory Approvals

ODVA certified, CE, UL / cUL, RoHS, REACH

Ordering Information

Engineering No.	Order No.	Description	Digital
TCDEI-88MP-D1U-G	1120955118	HarshIO Module, EtherNet/IP for Roller Drives	8 Digital Inputs, 4 Digital Outputs, 4 Analog Outputs

www.molex.com/link/harshio.html