

IOLB-7014

Part Number: 99640-8



KEY FEATURES AND BENEFITS

- 4 channel analog input IO-Link Block (Class B)
- M12 connectors
- Provides user scale and filters
- Input either voltage or current
- IP65/66/67
- Parameterization using IO-Link for easy installation and configuration
- Data Storage capable for easy device replacement
- IODD files

PRODUCT DESCRIPTION

The IOLB-7014 provides four configurable differential analog inputs. The IOLB-7014 is intended to be connected directly to an IO-Link Master without an additional coupler box.

The small IOLB-7014 form factor of only $126 \times 30 \times 26.5 \text{ mm}$ (h x w x d), which means that they are suitable for use where space is at a premium. The small mass of the IOLB-7014 module facilitates applications with mobile I/O interface (for example, a robot arm).

The robust design of the IOLB-7014 module enables them to be used directly at the machine. Control cabinets and terminal boxes are now

no longer required. The module is fully sealed and therefore ideally prepared for wet, dirty or dusty conditions (IP67).

Pre-assembled cables significantly simplify IO-Link and signal wiring. Very few wiring errors are made, so that commissioning is optimized. In addition to pre-assembled IO-Link, power and sensor cables, field- configurable connectors and cables are available for maximum flexibility. Sensors and actuators are connected through M12 connectors.

10-LINK BLOCK SPECIFICATIONS

HARDWARE

Communication Interface

Enclosure Industrial housing PA6 (polyamide)
Ingress Protection Rating

IP65, IP66, IP67 (conforms to EN 60529)

1 - IO-Link

4 – Analog Inputs Connector type (IO-Link) M12, 5-poles, A-coded (male)
Connector type (Analog inputs)
M12, 4-poles, A-coded (female)

Connector Contacts Plated CuZn

Mounting method Mounting mechanism Machine or panel mount

Two mounting holes on the product for M3 screws

LED Indicators

IO-Link Communication status, Power Input L+, Power Input 2L+, Analog Input /Output status

Dimensions (L x W x H) 126 x 30 x 26.5 mm

5" x 1.2" x 1 Weight 125g 4.4 oz

ELECTRICAL SPECIFICATIONS

Operating Voltage Nominal Voltage 18 - 30VDC

Supply for Module Electronics L+ (Pin 1, 3 on IO-Link Connector X1)
Supply of sensors

2L+ (Pin 2. 5 on IO-Link Connector X1)

Electrical isolation Yes (between L+ and 2L+)

Current Consumption (Module Electronics)

100mA from L+

IO-LINK COMMUNICATION SPECIFICATIONS

Communication

Operating Mode COM3 (230.4 Kbps)

Standard IEC61131-9 IO-Link Device ID 7014 (decimal)

00 1B 66 (hex) IO-Link Connector 1 x M12, 5-poles, A-coded IO-Link V1.1 Class B Specification Version

IODD Files Features Yes Data storage Process Data Input (PDI) 16 Bytes Process Data Output (PDO) Process Image 0 Bytes Inputs: 4 x 16 bit Outputs: 4 x 16 bit

ANALOG INPUT SPECIFICATIONS

Number of Analog Inputs

Input Connectors

4 x M12, 5-pole, A-coded socket Input Types

Configurable: 0 V ... + 10 V
 -10 V ... + 10V
 0 mA ... 20 mA

4 mA ... 20 mA

Internal Resistance > 200K ohms (typ. 85 Ω + diode voltage)

16 bits (incl. Sign) Resolution Configurable 5 kHz Input Filter
Input filter cut-off frequency

~ 100 microseconds Conversion time Measurement Error

<± 0.3% (relative to the full-scale value)

Common mode voltage UCM Max. 35 V **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature -25°C to +60°C -40°C to +85°C Storage temperature Operating humidity 10% to 95% 10% to 95% Storage humidity Shock and Vibrations FN 60068-2-6 EN 60068-2-27

REGULATORY APPROVALS

EN 61000-6-4 International Standard IEC 61000-6-4

Immunity

EN61000-6-2 International Standard IEC 61000-6-2

UL508 Safety Approvals

Other IP65, IP66, IP67 (conforms to EN 60529)

2011/65/EU (RoHS2) Directive

Approvals CE, UL, RoHS2



Warranty Information

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

Sales Support

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