

## IOLB-8018

Part Number: 99647-7



### KEY FEATURES AND BENEFITS

- 8 point Digital Input IO-Link Block (Class A)
- 8 – M12 connectors
- Input 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-8018 is an IO-Link Block (Class A) with Digital Inputs that acquires binary control signals from the process level, and then transfers them (electrically isolated) to the controller. The status of the signal is displayed by LEDs and the signal connection is made through M8 connectors. The sensors are supplied from US1, which is derived from L+.

The small IOLB-8018 form factor (H126 x W30 x D26.5 mm) means that they are suitable for use where space is at a premium. The small mass of the IOLB-8018 module facilitates applications with mobile I/O interface, for example, a robot arm.

The robust design of the IOLB-8018 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.

# IO-LINK BLOCK SPECIFICATIONS

## HARDWARE

Communication Interface	IO-Link
Enclosure	
Industrial housing PA6 (polyamide)	
Ingress Protection Rating	
IP65, IP66, IP67 (conforms to EN 60529)	
Ports	
1 – IO-Link Class A	
8 – Digital Inputs	
Connector Type (IO-Link)	
M12, 5-poles, A-coded (Male)	
Connector Type (Digital Input/Output)	
M12, 5-poles, A-coded (Female)	
Connector Contacts	Plated CuZn
Mounting Method	Machine or panel mount
Mounting Mechanism	
Two mounting holes on the product for M3 screws	
LED Indicators	
IO-Link Communication status, Power Input L+, Power Input 2L+, Digital Input / Output Signal status	
Dimensions (L x W x H)	126 x 30 x 26.5 mm 5" x 1.2" x 1"
Product Weight	160 g 5.6 oz
Shipping Weight	200 g 7.2 oz

## ELECTRICAL SPECIFICATIONS

Operating Voltage	18 – 30VDC
Nominal Voltage	24VDC
Supply for Module Electronics	
L+ (Pin 1, 3 on IO-Link Connector X1)	
Current Consumption (Module Electronics)	
100mA from L+	

## IO-LINK COMMUNICATION SPECIFICATIONS

Communication	IO-Link
Operating Mode	COM3 (230.4 Kbps)
Standard	
IEC61131-9 (IO-Link v1.1)	
IO-Link Device ID	
8018 (decimal)	
00 1F 52 (hex)	
IO-Link Connector	1 x M12, 5-poles, A-coded
Specification Version	IO-Link V1.1
IODD Files	Yes
Features	Data storage
Process Data Input (PDI)	1 Byte
Process Image	8 Input bits

## DIGITAL INPUT SPECIFICATIONS

Number of Inputs	8
Input Connectors	
8 x M12, 5-poles, A-coded (Female)	
Input Filter (Adjustable)	
3.0 ms (default)	
Adjustable between 0 ms and 20 ms	
Input Signal Extension Time (Adjustable)	
0 ms (default),	
Adjustable between 0 ms and 100 ms	
"0" Signal Voltage	
-3 to +5V (EN 61131-2, Type 3)	
"1" Signal Voltage	
+11 to +30V (EN 61131-2, Type 3)	
Input Current	
Typically 3mA (EN 61131-2, Type 3)	
Sensor Supply	
US1 (derived from L+)	
Sensor Current Consumption	
Maximum 0.5A Total, Short-Circuit Proof	

## ENVIRONMENTAL SPECIFICATIONS

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

## REGULATORY APPROVALS

Emissions	
EN 61000-6-4	
International Standard IEC 61000-6-4	
Immunity	
EN61000-6-2	
International Standard IEC 61000-6-2	
Safety Approvals	UL508
Other	
IP65, IP66, IP67 (conforms to EN 60529)	
2011/65/EU (RoHS2) Directive	
Approvals	CE, UL, RoHS2



### 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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