



IOLB-8108

Part Number: 99650-7



IO-LINK BLOCK

KEY FEATURES AND BENEFITS

- 8 point Digital Output IO-Link Block (Class B)
- 8 – M8 connectors
- Input voltage or current
- IP65/66/67
- Data Storage capable for easy device replacement
- IODD files

PRODUCT DESCRIPTION

The IOLB-8108 has eight digital points, each of which can be operated as an output and is connected to an IO-Link Master.

The outputs handle load currents of up to 0.5A, and although the total current is limited to 4A, they are short-circuit proof and protected against inverse polarity. The state of each signal is indicated by means of LEDs. The signals are connected via M8 connectors.

The small IOLB-8108 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-8108 module facilitates applications with mobile I/O interface, for example, a robot arm.

The robust design of the IOLB-8108 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 M8 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 B 8 – Digital Outputs
Connector type (IO-Link)	M12, 5-poles, A-coded (male)
Connector type (Analog inputs)	M8, 3-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+, Analog Input /Output status
Dimensions (L x W x H)	126 x 30 x 26.5 mm 5" x 1.2" x 1"
Weight	160g 5.6 oz
Shipping Weight	180 g 6.4 oz

ELECTRICAL SPECIFICATIONS

Operating Voltage	18 – 30VDC
Nominal Voltage	24VDC
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) – See Port Class B Wiring
Electrical isolation	Yes (between L+ and 2L+)
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 Class B)
IO-Link Device ID	8108 (decimal) 00 20 74 (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 Output (PDO)	1 Byte
Process Image	8 Output bits

DIGITAL OUTPUT SPECIFICATIONS

Number of Outputs	8
Output Connectors	8 x M8, 3-poles, A-coded (Female)
Output Load Type	Ohmic, inductive, lamp load
Rated Output Load Voltage	24VDC (-15%/+20%)
Output Current	max. 0.5A per channel
Short Circuit Current	max. 1.5A
Output Driver Current Consumption	typically 8mA per channel
Output Driver Supply	2L+

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-25°C to +60°C
Note: To meet the UL requirements, the IOLB-8108 has to be operated only at an ambient temperature range of 0 to 55°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

PORT CLASS B WIRING

IOLB-8308 with Port Class A IO-Link Master	IP67: Requires a Y-splitter to supply Ua power to the device IP20: Wire Pins 1, 3, and 4 to the Class A IO-Link Master and wire Pins 2,5 to Ua power source
IOLB-8308 with Port Class B IO-Link Master	IP67: Connect a M12 cable to both the device and the IO-Link Master.
Ua Power Source	Shall be supplied from a power supply isolated from Us and may or may not be switched through a safety circuit.



Warranty Information

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

Sales Support

+1.763.957.6000
sales@comtrol.com

Technical Support

+1.763.957.6000
www.comtrol.com/support

Email, FTP, and Web Support

info@comtrol.com
ftp.comtrol.com
www.comtrol.com