IO-LINK BLOCK *IOLB-8108*

8 Point Digital Output - M8

User Guide



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Overview

IOLB-8108 Module Overview

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 shortcircuit proof and protected against inverse polarity. The state of each signal is indicated by means of LEDs. The signals are connected via M8 connectors.

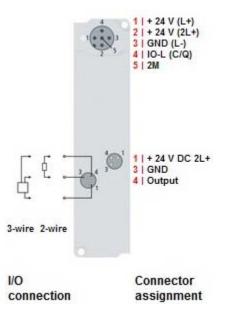
The small IOLB-8108 form factor (H126 x W30 x D26.5 mm) means that they are suitable for use where space is at a premium. The small mass of the IOLB-8108 module facilitates applications with mobile I/O interface, for example, a robot arm.

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.

8 - Digital Outputs (24VDC Imax 0.5A)

The IOLB-8108 digital outputs connects binary control signals from the controller to the actuators at the process level. The eight outputs handle load currents of up to 0.5A, and indicate their status through LEDs.



IOLB-8108 LEDs

X1 (IO-Link LED)	Description
Off	IO-Link communications not active.
Flashing green (1 Hz)	IO-Link communications active.
Lit (Red)	Short circuit on C/Q line or overheating.

This subsection provides information about the IOLB-8108 LEDs.

	MTROL'	Description
	Off	Voltage L+ Unavailable
$24V\left(L+ ight)$	Green	Voltage L+ Ok
	Red	Voltage L+ Too Low
	Off	Voltage 2L+ Unavailable
24V (2L+)	Green	Voltage 2L+ Ok
	Red	Voltage 2L+ Too Low, Short Circuit

Process Data Output

The following image illustrates the PDO output byte.



IOLB-8108 Technical Specifications

IOLB-8108 Technica	ll Specifications
Communication	IO-Link
Data transfer rate	230.4K Baud (COM 3)
IO-Link connection	1 x M12 connector, A-coded
Specification version	IO-Link V1.1, Class B
Requirements IO-Link Master	V1.1
Number of outputs	8
Output connections	M8
Load type	Ohmic, inductive, lamp load
Rated output voltage	24VDC (-15%/+20%)
Output current	Max. 0.5A each channel
Short circuit current	Typically 1.5A
Module electronic current consumption	Typically 100mA from L+
Output driver current consumption	Typically 8mA per channel
Module electronic supply	L+
Output driver supply	2L+
Process image	8 output bits
Permissible ambient temperature during operation Note: To meet the UL requirements, the IOLB-8108 has to be operated only at an ambient temperature range of 0 to 55°C!	-25°C to +60°C
Permissible ambient temperature during storage	-40°C to +85°C
Vibration / shock resistance	Conforms to EN 60068-2-6 / EN 60068-2-27
EMC resistance/emission	Conforms to EN 61000-6-2 / EN 61000-6-4
Protection class	IP65, IP66, IP67 (conforms to EN 60529)
Installation position	Variable
Approvals	CE

IO-Link Basics

IO-Link is a communications system for connecting intelligent sensors and actuators to an automation system in IEC 61131-9 under the name *Single-drop digital communication interface for small sensors and actuators* (SDCI). Both the electrical connection data and the communication protocol are standardized and in the IO-Link specification summarized.

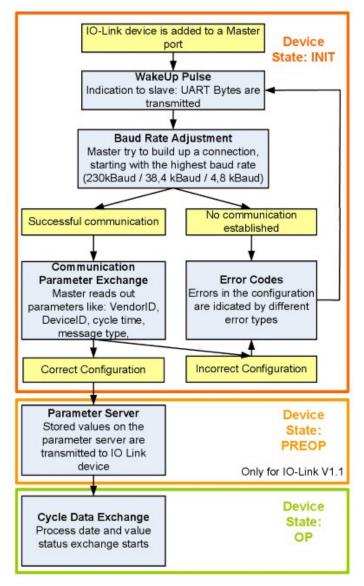
The IOLB-8108 meets the IO-Link specification 1.1. The IO-Link specification is included in the IEC standards and is accepted as IEC 61131-9 in an extended form. In this case, the new designation voltage SDCI is introduced.

An IO-Link system consists of an IO-Link Master, one or more IO-Link devices and sensors or actuators. The IO-Link Master provides the interface to the higher-level controller and controls the communication with the connected IO-Link devices. The Comtrol IO-Link Master series has four or eight IO-Link ports at which each one IO-Link device can be connected. Therefore, IO-Link is not a fieldbus, but rather is a peer-to-peer connection as shown in the figure.



The connected IO-Link devices have individual parameter information detected during automatic scanning with the Comtrol IO-Link Master. Refer to <u>Configuring the IOLB-8108</u> on Page 19 for more information.

The structure of the IO-Link communication is shown in the following figure. In particular, this represents the sequence in the automatic scanning of the IO-Link ports.



The Pre-operate State occurs if the IO-Link device is v1.1 and if Data Storage is enabled then the device parameters are uploaded or downloaded.

Hardware Installation

This section provides installation information for the IOLB-8108.

Mounting the IOLB-8108

The following table provides information that you may require for installation.

I	DLB-8108					
Housing material	PA6 (polyamide)					
Casting compound	Polyurethane					
Mounting	Two fastening holes Ø 3 mm for M3					
Metal parts	Brass, nickel-plated					
Contacts	CuZn, gold-plated					
Installation position	Any					
Protection class	IP65, IP66, IP67 (conforms to EN 60529)					
Dimensions (H x W x D)	126 x 30 x 26.5 mm					
Weight	180g 6.4oz					

Note: While mounting the IOLB-8108, protect all connectors against contamination. All connectors must have either a cable or plug to guarantee IP67 rating.

Keep the following in mind when mounting the IOLB-8108.

- Mount the IOLB-8108 with two M3 bolts.
- The bolts must be longer than 15 mm. The fixing holes of the modules are not threaded.
- When assembling, remember that the connectors increases the overall height.

Connecting the IOLB-8108

Use the appropriate procedure to connect the IOLB-8108 to an IO-Link Master.

- Installation With an IP67 Class A IO-Link Master on Page 13
- Installation With a Class A IP20 IO-Link Master on Page 16

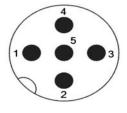
IOLB-8108 Power Supply Requirements

The power supply/supplies that you connect to the IOLB-8108 must meet the following requirements:

- 24VDC supplied by an isolating source and protected by means of a fuse (in accordance with UL248), rated maximum 4A or a 24VDC power source that satisfies NEC Class 2.
- A NEC Class 2 power supply shall not be connected in series or parallel with another (Class 2) power source.
- To meet the UL requirements, the IOLB-8108 must not be connected to unlimited power sources!
- **Note:** To meet the UL requirements, the IOLB-8108 must not be connected to telecommunications networks and must be operated at the ambient temperature range specified in the specifications.

For additional information, see *IOLB-8108 Technical Specifications* on Page 7.

Pin	Input - Male
1	24V (L+) - electronics power
2	24V (L2+) - sensor or device power
3	GND (L-)
4	IO-Link (C/Q)
5	GND (2M)



The following Comtrol cables and M12 Y-splitter can be used to connect the IOLB-8108 to the Class A IP67 IO-Link Master models.

Comtrol Part Number	Description							
1200143	Y Splitter, M12 5-poles, A-Coded, M to 2F							
Varies by length [†]	Sensor cable, M12 5-poles, A-coded, M to F							
Varies by length [†]	Power Cable, Comtrol IOLB, M12 A-Coded to wires							
Contact Comtrol Sales for the part number.								

Note: It is recommended to pull the M12 connectors tight with a nut torque of 0.6 Nm.

Installation With an IP67 Class A IO-Link Master

Use the following procedure to connect the IOLB-8108 to a Class A IP67 IO-Link Master.

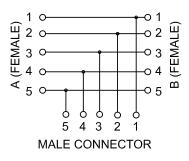
The images in this subsection shows connecting the 8-port IP67 model. Please note that the same procedures work for the 4-port model.

- Note: This procedure assumes that the IO-Link Master is powered on, connected to the network and the IP address has been programmed for your environment.
- 1. Connect the M12 Y splitter to an available Comtrol IO-Link Master IO-Link port.

This image shows:

- IO-Link sensor cable connected between the IO-Link Master port and the Y Splitter (1200143).
- Y Splitters connected directly to Ports 4 and 5.







Note: In the next step, make sure that the 24V power supply or is not energized during the wiring.

- 2. Connect the white and green wires of the Comtrol IOLB power cable to a $\rm U_{a}$ power source.
 - a. Connect the white wire to the positive 24V terminal.
 - b. Connect the green wire to the negative 24V terminal.
- 3. Connect the M12 connector end of the Comtrol IOLB power cable to one of the connectors on the Y-Splitter.



Note: Connectors A and B are interchangeable on the Y Splitter.



White = Positive
+V +V -V -V 0 0 24V/2.5A DC OK DC OK C C DC OK C C DC OK C C DC OK C C DC OK +V ADJ C C HOLONTEL PS1060 INPUT 100-240VAC 1.8A SOMOHE C N L C N L



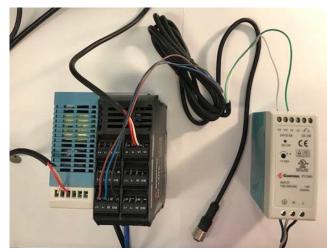
- 5. Apply power to the U_{a} power source connected to the IOLB-8108.
- 6. Verify that the following LEDs are lit:
 - Green 24V (L+) and 24V (2L+) LEDs on the IOLB-8108
 - Green IO-Link on the Comtrol IO-Link Master is lit
- *Note:* Refer to <u>IOLB-8108 LEDs</u> on Page 6 for detailed LED information.

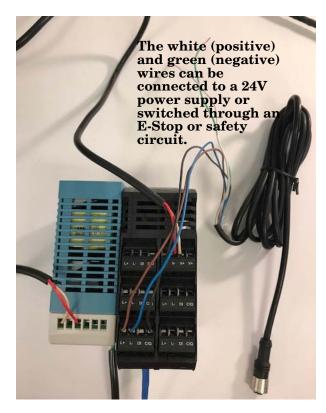


Installation With a Class A IP20 IO-Link Master

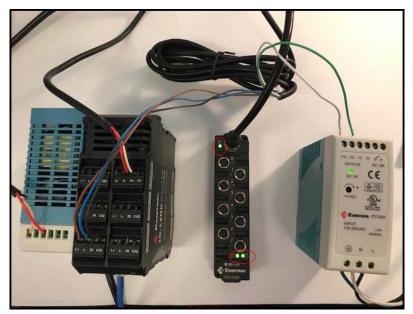
Use the following procedure to connect the IOLB-8108 to a Class A IP20 (DIN rail model) IO-Link Master.

- **Note:** This procedure assumes that the IO-Link Master is powered on, connected to the network and the IP address has been programmed for your environment.
- 1. Connect a M8 A-coded to bare wire cable to the IO-Link Master:
 - Black to C/Q
 - Blue to L-
 - Brown to L+
- *Note:* In the next step, make sure that the 24V power supply or is not energized during the wiring.
- 2. Connect the white and green wires of the IO-Link cable to a U_a power source. The image below illustrates connecting to a power supply.
 - c. Connect the white wire to the positive 24V terminal.
 - d. Connect the green wire to the negative 24V terminal.
 - e. Apply power to the U_a power source.





3. Connect the M12 connector from the IO-Link Master to the IOLB-8108 X1 connector.



4. Verify that the following LEDs are lit:

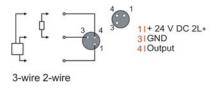
- Green 24V (L+) and 24V (2L+) LEDs on the IOLB-8108
- Green IO-Link on the Comtrol IO-Link Master is lit

Note: Refer to <u>IOLB-8108 LEDs</u> on Page 6 for detailed LED information.

Digital Outputs (M8)

The digital output modules connect the binary control signals from the automation unit on to the actuators at the process level.

The signals are connected via M8 connectors.



The outputs are short-circuit safe and protected against inverse connection. The outputs indicate their status through light emitting diodes.

Comtrol IO-Link Master Diagnostic Page

You can also verify IOLB-8108 operation by viewing the Comtrol IO-Link Master IO-Link Diagnostics page.

- 1. Log into the Comtrol IO-Link Master using the IP address.
- 2. Click Diagnostics | IO-Link.

IO-Link Diagnostics 🕷				UPDATE STOP LIVE UPDAT	ES RESET	STATISTICS
IO-LINK PORT STATUS	PORT 1	×	Ŧ	PORT 4	H H	* *
Port Name	IO-Link Port 1			IO-Link Port 4		
Port Mode	IOLink			IOLink		
Port Status	Operational			Operational		
IOLink State	Operate			Operate		
Device Vendor Name	Comtrol Corporation			Comtrol Corporation		
Device Product Name	Comtrol IOLB-8118			Comtrol IOLB-8108		
Device Serial Number	9652-38			9650-36		
Device Hardware Version	00			00		5
Device Firmware Version	04			04		Ĵ
Device IO-Link Version	1.1			1.1		
Actual Cycle Time	4.0ms			4.0ms		
Device Minimum Cycle Time	0.5ms			0.5ms		
Configured Minimum Cycle Time	4ms			4ms		
Data Storage Capable	Yes			Yes		
Automatic Data Storage Configuration	Disabled			Disabled		
Auxiliary Input (AI) Bit Status	Off			Off		

Configuring the IOLB-8108

This section discusses loading the IODD on the Comtrol IO-Link Master.

Locating the IOLB-8108 IODD Files

The IOLB-8108 IODD files are located on the Comtrol download site using one of these addresses:

- http://downloads.comtrol.com/IO Link Block/IOLB 8108/IODD
- ftp://ftp.comtrol.com/IO Link Block/IOLB 8108/IODD

Loading the IODD Files Onto the Comtrol IO-Link Master

Use the following procedure to load the IOLB-8108 IODD file.

- 1. If necessary, download the IOLB-8108 IODD files.
- 2. Log into the Comtrol IO-Link Master using the IP address.
- 3. Click Attached Devices.
- 4. Click the UPLOAD FILE button.

	Device Descri Difiles (click filen					
VENDOR	DEVICE	IODD FILENAME	DEVICE IMAGE	VENDOR IMAGE	SIZE	•
	E	IODD space	e: 594K used, 15790K available		DELETE S	ELECTED

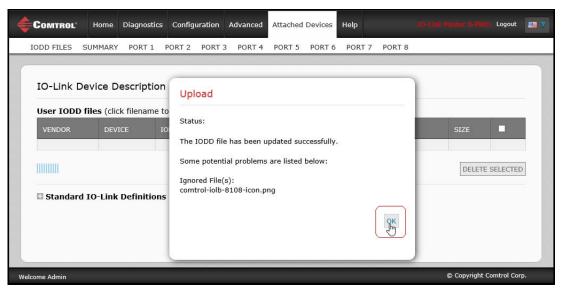
5. Click the CHOOSE FILE button.

COMTROL	Home	Diagnostics	Configuration	Advanced	Attached	Devices	Help		IO-Link M	laster 8-PNIC	Logout	-
IODD FILES S	SUMMARY	PORT 1	PORT 2 PORT 3	B PORT 4	PORT 5	PORT 6	PORT 7	PORT 8				
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User IODD	filos (slis)	filennes t	n view)									
VENDOR	DEVI		IODD FILENAME		DEVICE IMAG	25	VEN	DOR IMAGE		SIZE		Ľ.
VENDOR	DEVI	CE .	IODD FILENAME		DEVICE IMAG	35	VEN	DOK IMAGE		5126		
CHOOSE FILE				CANCEL						DELETE		
CHOOSE FILE	INO THE CHO	sen	UPLOAD	CANCEL						DELETE	SELECTED	
Standard	IO-Link	Definitions	5									

- 6. Browse to the location you saved the IODD file and select the file.
- 7. Click the **UPLOAD** button.

Comtrol	Home	Diagnostics	s Configu	iration	Advanced	Attached	Devices	Help				Logout	
IODD FILES	SUMMARY	PORT 1	PORT 2	PORT 3	PORT 4	PORT 5	PORT 6	PORT 7	PORT 8				
IO-Link E		•		9									
User IODD													
VENDOR	DEV	ICE	IODD FILEN	IAME	C	DEVICE IMA	GE	VEND	OR IMAGE	S	SIZE		
CHOOSE FIL	E Comtrol-	OLBDD1.1.	zip UF	PLOAD	CANCEL						DELETE	SELECTED]
🛛 Standard	l IO-Link	Definition	S										
Welcome Admin										© (Copyright Co	omtrol Corp	```

8. Click the **Ok** button.



Note: The above message is expected behavior because the .icon file is not required by the XML file.9. Optionally, click the file name if you want to view the xml file.

COMTROL	Home	Diagnostics	Configuration	Advanced	Attached	Devices	Help		10-Link Master 8	-PNIO La	gout	
IODD FILES	SUMMARY	PORT 1	PORT 2 PORT 3	3 PORT 4	PORT 5	PORT 6	PORT	7 PORT	8			
IO-Link De	evice D	escription	Files 🛿									
User IODD	files (clio	ck filename to	o view)									
VENDOR	DEVICE	IODD FILENA	٩E		DEVI	CE IMAGE			VENDOR IMAGE	SIZE		
355	8108	Comtrol-IOLE	-8108-20180612-	IODD1.1.xm]	comt	rol-iolb-	8108-pic	. png	comtrol-logo.png	42K		
UPLOAD FILE			IODD sp	ace: 43K usec	, 16341K a	available			DE	LETE SEL	ECTED	
Standard	IO-Link	Definitions										
http://10.0.0.188/index.pl	hp/view_upl	loaded_iodd_files,	/355/8108/Comtrol-I	OLB-8108-20180	6				© Copyr	ight Comt	ol Corp.	

10. Click the **SUMMARY** link to verify that the correct IODD file loaded. If a file name displays in the IODD Name field that means that the correct IODD file is loaded.

COMTROL	Home	Diagnostic	s Config	uration	Advanced	Attached	Devices	Help			IO-Link Master 8-PNIO	Logout	
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		-		,									
DEVICE SET	TINGS	POF	RT1	М	ORE POR	.T2	MOR	E PORT3		MORE	PORT4	MORE	
Vendor Na	me										Comtrol Corporation		
VENDOR											355		
DEVICE											8108		
Description	n										8-Ch Digital Output M M8	odule,	
IO-Link Ve	rsion										1.1		
Hardware	Version										00		
Firmware	Version										04		
Baud Rate											230400		
SIO Mode											Yes		
Min Cycle	Гime										0.5 ms		
IODD Nam	e										Comtrol-IOLB-8108-20 12-IODD1.1.xml	01806	
Serial Nun	ber										9650-36		
<												>	
elcome Admin											© Copyright Co	mtrol Corp.	

Configuring the IOLB-8108

After loading the IODD file on the IOLB-8108 you change the Application Specific Tag, Restore Factory Defaults, and implement the Data Storage Lock feature. In addition, you can review the *Diagnostics* group.

- 1. If necessary, log into the Comtrol IO-Link Master.
- 2. Click Attached Devices | Port x, where x is the IO-Link port that you have attached the IOLB-8108.
- 3. Click the EDIT button.

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You can expand or collapse parameter groups	You can expand or collapse parameter groups	- Miscellaneous Settings - Standard Command 2 Restore Factor 130:Restore Factory Settings WO	You can expand or collapse parameter groups
Standard Command 2 Restore Factor 130:Restore Factory Settings WO	Standard Command 2 Restore Factor 130:Restore Factory Settings WO		Standard Command 2 Restore Factor 130:Restore Factory Settings WO
Data Storage Lock 12 2* 0 0 1 RW	Data Storage Lock 12 2* 0 0 1 RW	Data Storage Lock 12 2* 0 0 RW 1	Data Storage Lock 12 2* 0 0 1 RW
		- Diagnosis	
		Data Storage Lock 12 2* 0 0 RW	

Note: For information about using the Comtrol IO-Link Master, refer to the help system or appropriate User Guide for the model.

4. Make the necessary changes to reflect the devices that you intend on connecting and click the SAVE button.

O-Link Device - Port 4 🛿 🕖	ser role menu 🗸	•	C	Comtrol'	
Parameter Name	Index	Subindex	Value	Description	R/W Unit
- Identification					
Vendor Name	16		Comtrol Corporation		RO
Vendor Text	17		www.comtrol.com		RO
Product Name	18		Comtrol IOLB-8108		RO
Product Text	20		8-Ch Digital Output Module, M 8		RO
Serial Number	21		9650-36		RO
Hardware Version	22		00		RO
Firmware Version	23		04		RO
Application Specific Tag	24		Digital OUTPUT #1 ×		RW
- Parameter					
- Miscellaneous Settings					
Standard Command	2		Restore Factor	130:Restore Factory Settings	wo
Data Storage Lock	12	2*		0	RW
- Diannocie					>

D-Link Device - Port 4	🛿 User role menu	~	Ð	Comtrol' REFRES	
				COMTROL' REFRES	GH EDIT COMMA
Parameter Name	Index	Subindex	Value	Description	R/W Unit
- Identification					
Vendor Name	16		Comtrol Corporation		RO
Vendor Text	17		www.comtrol.com		RO
Product Name	18		Comtrol IOLB-8108		RO
Product Text	20		8-Ch Digital Output Module, M 8		RO
Serial Number	21		9650-36		RO
Hardware Version	22		00		RO
Firmware Version	23		04		RO
Application Specific Tag	24		Digital OUTPUT #1		RW
- Parameter					
- Miscellaneous Settings					
Standard Command	2		Restore Factor	130:Restore Factory Settings	wo
Data Storage Lock	12	2*	0	0 1	RW
- Diagnosis					
<					>

After the page is saved, note that the changes have been implemented.

Object Descriptions

This section provides supporting information for the IOLB-8108 object descriptions.

IOLB-8108 Parameters

Note: The Index and Sub-indexes are displayed as decimal numbers, which match the Comtrol IO-Link Master.

Index	Subindex	Name	Meaning	Data type	Flags	Default			
			Identification						
16		Vendor Name	Comtrol Corporation	StringT64	RO	N/A			
17		Vendor Text	www.comtrol.com	StringT64	RO	N/A			
18		Product Name	Comtrol IOLB-8108	StringT64	RO	N/A			
20		Product Text	8-Ch Digital Output Module, M8	StringT64	RO	N/A			
21		Serial Number	9650-XXXXXX	StringT16	RO	N/A			
22		Hardware Version	00	StringT64	RO	N/A			
23		Firmware Version	04	StringT64	RO	N/A			
24		Application Specific Tag	****	StringT32	RO	N/A			
Parameter									
	Miscellaneous Settings								
2		Standard Command	130 - Restore factory defaults	UINT8	WO	0x0000 (0dec)			
12	02	Data Storage Lock		BOOLEAN	RW	0x0000 (0dec)			

Hardware and firmware versions may be different than what is displayed in this table.

Diagnostics Parameters

Index	Subindex	Name	Meaning	Data type	Flags
			Diagnostics		
2560	01	Overtemperature	Temperature exceeded limits	RecordT	RO
2560	02	Short detected	Short circuit on the IO-Link C/Q line	RecordT	RO
2560	03	L low	Supply voltage too low (<18V)	RecordT	RO
2560	04	2L low	Additional power supply too low (<18V)	RecordT	RO
2560	05	2L stat	Additional power supply non-existent (<8V)	RecordT	RO