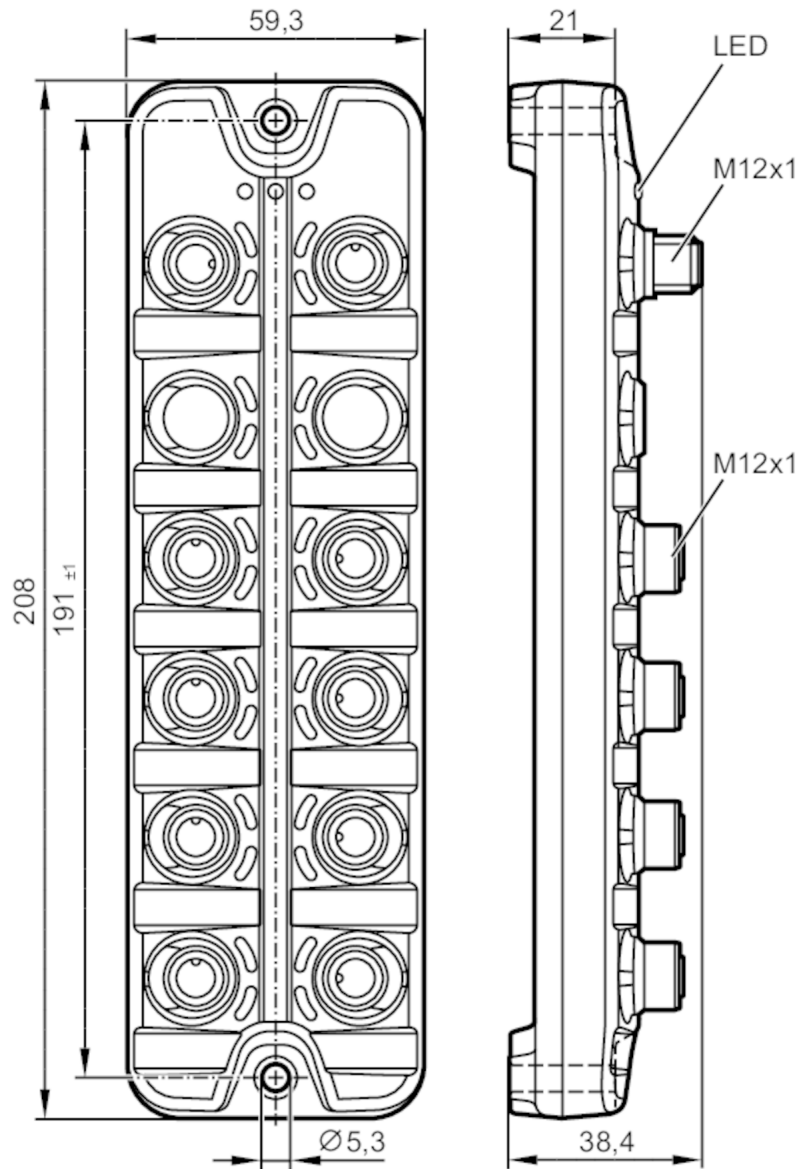


# AL2305



## IO-Link input/output module

IOL MOD SL 8XMP/DX E M12 IP67



Depending on the version some LEDs are inactive



### Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	100; (US)
Protection class		III
Additional voltage supply	[V]	18...30 DC; (UA UAi)
Max. current consumption from additional supply	[mA]	4000; (UA; UAi: 400 mA)

### Inputs / outputs

Total number of inputs and outputs		16; (configurable)
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## IO-Link input/output module

IOL MOD SL 8XMP/DX E M12 IP67

Number of inputs and outputs	Number of digital inputs: 16; Number of analog inputs: 8; Number of digital outputs: 16									
<b>Inputs</b>										
Number of digital inputs	16; (configurable)									
Input circuit of digital inputs	PNP; (type 3 (IEC 61131-2))									
Sensor supply of the inputs	AUX (UA, UAi)									
Voltage supply [V]	18...30									
Input current High [mA]	2...15									
Input current low [mA]	0...1.5									
Switching level high [V]	11...28									
Switching level low [V]	0...5									
Number of analog inputs	8; (configurable current/voltage input)									
Analog input (current) [mA]	4...20									
Analog input (voltage) [V]	0...10									
Resolution of analog input	16 Bit									
<b>Outputs</b>										
Number of digital outputs	16; (configurable)									
Max. current load per output [mA]	1800									
Max. current load outputs total [A]	3.6; (max. current load per segment: 1800 mA)									
Short-circuit protection	yes									
Actuator supply outputs	AUX (UA)									
<b>Interfaces</b>										
Communication interface	IO-Link									
Transmission type	COM3 (230,4 kBaud)									
IO-Link revision	1.1									
SDCI standard	IEC 61131-9									
SIO mode	no									
Required master port class	A									
Min. process cycle time [ms]	4									
Supported DeviceIDs	<table border="1"> <thead> <tr> <th>Type of operation</th> <th>DeviceID</th> </tr> </thead> <tbody> <tr> <td>Acyclic enhanced parametrisation</td> <td>1448</td> </tr> <tr> <td>Acyclic parametrisation</td> <td>1316</td> </tr> <tr> <td>Factory setting: parametrisation via Pdout</td> <td>1315</td> </tr> </tbody> </table>	Type of operation	DeviceID	Acyclic enhanced parametrisation	1448	Acyclic parametrisation	1316	Factory setting: parametrisation via Pdout	1315	
Type of operation	DeviceID									
Acyclic enhanced parametrisation	1448									
Acyclic parametrisation	1316									
Factory setting: parametrisation via Pdout	1315									
Note	Parameter setting can be changed from "cyclic" to "acyclic" and "acyclic enhanced" For further information please see the IODD PDF file at "Downloads"									
<b>Acyclic enhanced parametrisation</b>										
Profiles	Common - I&D	Identification and Diagnosis								
	Function	Multiple switching signal								
<b>Acyclic parametrisation</b>										
Profiles	Common - I&D	Identification and Diagnosis								
<b>Factory setting: parametrisation via Pdout</b>										
Profiles	Common - I&D	Identification and Diagnosis								
<b>Operating conditions</b>										
Ambient temperature [°C]	-25...60									

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## IO-Link input/output module

IOL MOD SL 8XMP/DX E M12 IP67

Storage temperature	[°C]	-25...70
Max. relative air humidity	[%]	90
Max. height above sea level	[m]	2000
Protection		IP 65; IP 67
Protection rating (NEMA 250)		6P
Degree of soiling		2
Chemical media	ISO 16750-5	AA, BA, BD, HLP, CC, DB, DC, DD, CA
	NEMA 250 5.13.1	AA

### Tests / approvals

EMC	EN 61000-6-2	
	EN 61000-6-3	
	IEC 61131-9	
Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64	
	DIN EN 60068-2-6	
MTTF	[years]	46

### Mechanical data

Weight	[g]	396.9
Dimensions	[mm]	26 x 59.3 x 208
Material		housing: PA orange; Socket: brass nickel-plated
Sealing material		FKM
Tightening torque	[Nm]	< 0.8

### Displays / operating elements

Display	Power	1 x LED, green
	fault	1 x LED, red
	Function	1 x LED, yellow

### Accessories

Accessories (optional)	protective cap for M12 sockets
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### Remarks

Pack quantity	1 pcs.
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### Electrical connection - AUX

Connector: 1 x M12; coding: A



### X31

1	L+ UAi
2	L- UA/UAi
3	n.c.
4	L+ UA

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IOL MOD SL 8XMP/DX E M12 IP67

### Electrical connection - IO-Link

Connector: 1 x M12; coding: A

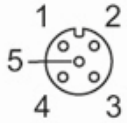


#### X1

1	L+ US
2	n.c.
3	L- US
4	DATA IO-Link

### Electrical connection - inputs / outputs

Connector: 8 x M12; coding: A; sealing: FKM



#### X1.0...X1.7

1	L+ UA/UAi Sensor supply
2	MP2 DI2/DO2
3	L- UA/UAi
4	MP1 DI1/DO1
5	n.c.