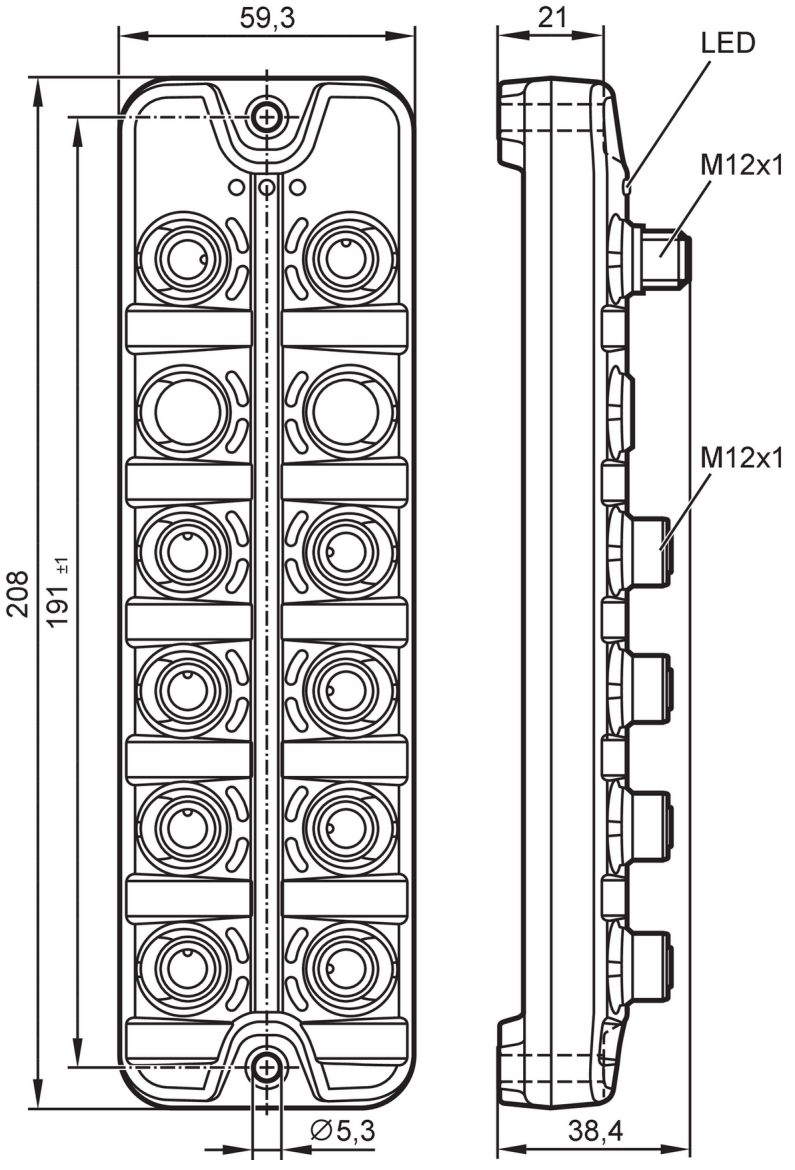
AL2205

IO-Link input/output module

IOL MOD SL 8XMP/DX E M12 IP69K



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)
Number of inputs and outputs		Number of digital inputs: 16; Number of analogue inputs: 8; Number of digital outputs: 16
Inputs		
Number of digital inputs		16; (configurable)

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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 analogue inputs		8; (configurable current/voltage input)
Analogue input (current)	[mA]	4...20
Analogue input (voltage)	[V]	0...10
Resolution of analogue input		16 Bit

Outputs

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)

Interfaces

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 type		A
Min. process cycle time	[ms]	4

Supported DeviceIDs	**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 under "Downloads"

Acyclic enhanced parametrisation		
Profiles	Common - I&D	Identification and Diagnosis
	Function	Multiple switching signal

Acyclic parametrisation		
Profiles	Common - I&D	Identification and Diagnosis

Factory setting: parametrisation via Pdout		
Profiles	Common - I&D	Identification and Diagnosis

Operating conditions

Ambient temperature	[°C]	-25...60
Storage temperature	[°C]	-25...70
Max. relative air humidity	[%]	90
Max. height above sea level	[m]	2000
Protection		IP 65; IP 67; IP 69K; (operation with stainless steel protective caps: IP 69K)

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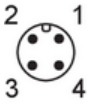
Protection rating (NEMA 250)		6P	
Pollution degree		2	
Chemical media		ISO 16750-5	HLP, CC, DB, DC, DD, CA
		NEMA 250 5.13.1	AA
Tests / approvals			
EMC		EN 61000-6-2	
		EN 61000-6-3	
		IEC 61131-9	
Shock resistance		DIN EN 60068-2-27	
Vibration resistance		DIN EN 60068-2-64	
		DIN EN 60068-2-6	
MTTF	[years]	46	
Mechanical data			
Weight	[g]	407	
Housing		rectangular	
Type of mounting		backplane mounting	
Dimensions	[mm]	208 x 59.3 x 38.4	
Materials		housing: PA grey; socket: stainless steel (316L/1.4404)	
Sealing material		EPDM	
Tightening torque	[Nm]	< 0.8	
Displays / operating elements			
Display		operation	1 x LED, green
		fault	1 x LED, red
		function	1 x LED, yellow
Accessories			
Accessories (optional)		protective cap for M12 sockets	
Remarks			
Pack quantity		1 pcs.	

Electrical connection - AUX

Connector: 1 x M12; coding: A; Contacts: 4

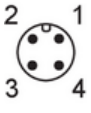


X31

1	+ 24 V DC (UAi)
2	GND (UA/UAi)
3	not used
4	+ 24 V DC (UA)

Electrical connection - IO-Link

Connector: 1 x M12; coding: A; Contacts: 4



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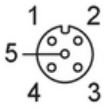
X1	
1	+ 24 V DC (US)
2	not used
3	GND (US)
4	IO-Link

Electrical connection - inputs / outputs

Connector: 8 x M12; coding: A; Contacts: 4; Sealing: EPDM



X1.0...X1.7	
1	Sensor supply + 24 V DC (UA/UAi)
2	multifunctional input I2 digital output O2
3	GND (UA/UAi)
4	digital input/output I1/O1
5	not used