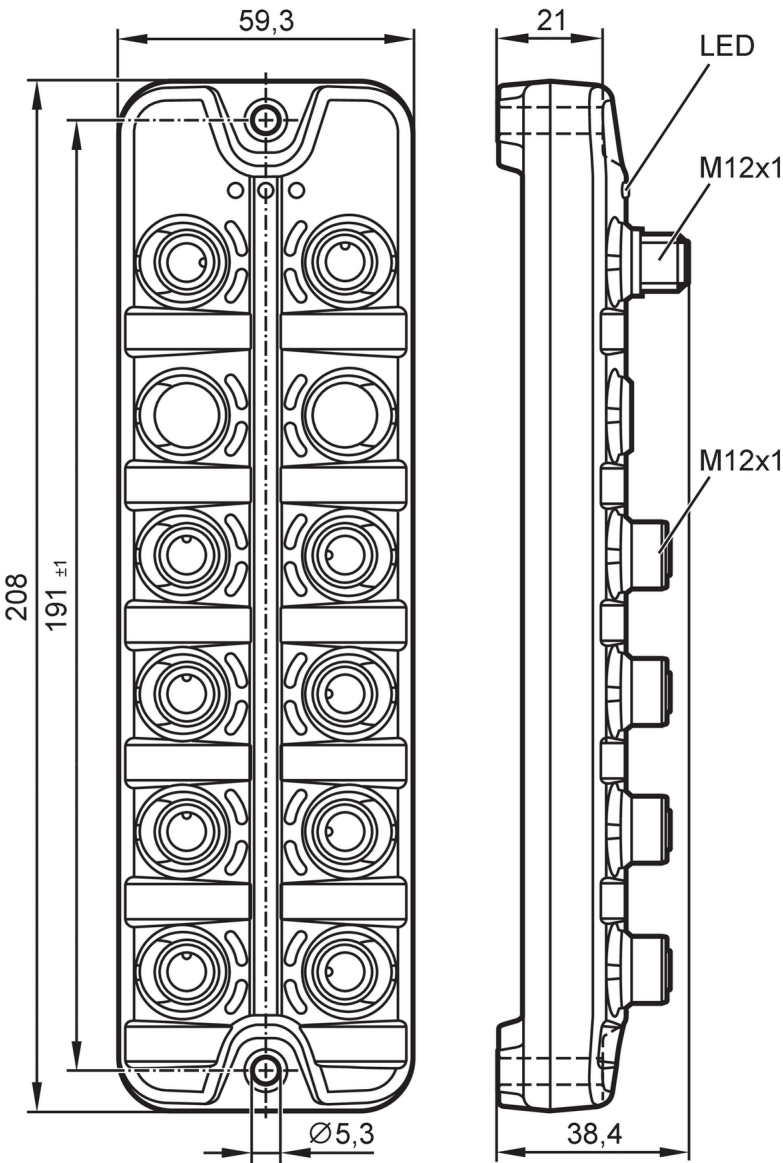


AL2305



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)
Number of inputs and outputs		Number of digital inputs: 16; Number of analog inputs: 8; Number of frequency inputs: 2; Number of digital outputs: 16



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Inputs		
Number of frequency inputs		2
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		16 Bit
Accuracy [%]		0,3
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)
Number of PWM outputs		8; (acyclic enhanced modus)
Number of PWM-I outputs		2; (acyclic enhanced modus)
PMW/PWM-I output	max. current PWM-I output [mA]	1800
	available factors for the controller [PID]	Kp, Ki, Kd
	currently requested resolution [mA]	1
	Accuracy PWM-I Ausgang [%]	2,5
	range of the PWM output pulse/pause ratio [%]	0...1000
	switch-on time resolution ‰	1
	PWM/PWM-I frequency range [Hz]	20...1000
	number of configurable frequencies	2
	number of PWM outputs with optional dither	8
	dither level [%]	1...250
	dither number	1...20
Measuring/setting range		
Sampling rate [Hz]		0...3000
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 class		A



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Min. process cycle time	[ms]	4
Supported DeviceIDs	Type of operation	DeviceID
	Acyclic enhanced parametrisation	1448
	Acyclic parametrisation	1316
	Factory setting: Cyclic parametrisation	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"	
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: Cyclic parametrisation		
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
Protection rating (NEMA 250)		6P
Pollution degree		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 61000-6-4	
	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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IOL MOD SL 8XMP/DX E M12 IP67

Remarks

Pack quantity	1 pcs.
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Electrical connection - AUX

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



X31

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

Electrical connection - IO-Link

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

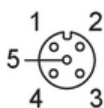


X1

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

Electrical connection - inputs / outputs

Connector: 8 x M12; coding: A; Contacts: 4; 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.