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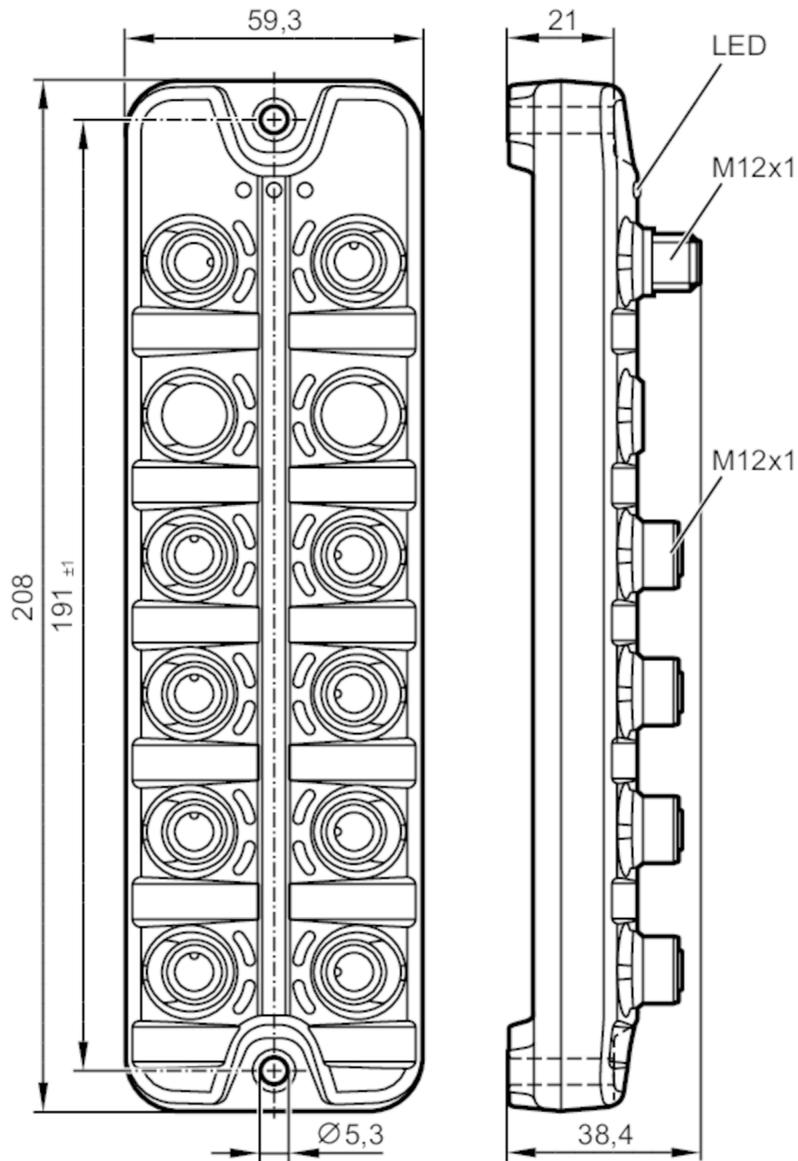
IO-Link input/output module

IOL MOD SL 8XMP/DX E M12 IP69K

Depending on the version some LEDs are inactive

CE · cULus LISTED · IO-Link · UKCA

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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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)
Input circuit of digital inputs		PNP; (type 3 (IEC 61131-2))
Sensor supply of the inputs		AUX (UA, UAi)
Power 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
Profiles	Common - I&D	Identification and Diagnosis
SIO mode		no
Required master port type		A
Min. process cycle time	[ms]	4

Supported DeviceIDs	Type of operation	DeviceID
	Acyclic parametrisation	1316
	Factory setting: parametrisation via Pdout	1315

Note	The parameter setting can be changed from cyclical to acyclical.
	For further information please see the IODD PDF file under "Downloads"

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)
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

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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

X31

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

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Electrical connection - IO-Link

Connector: 1 x M12; coding: A

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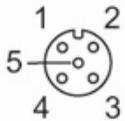
X1.0...X1.7	
1	Sensor supply + 24 V DC (UA/UAi)
2	multifunctional input I2 digital output O2
3	GND (UA/UAi)
4	digital input/output I1/O1
5	not used