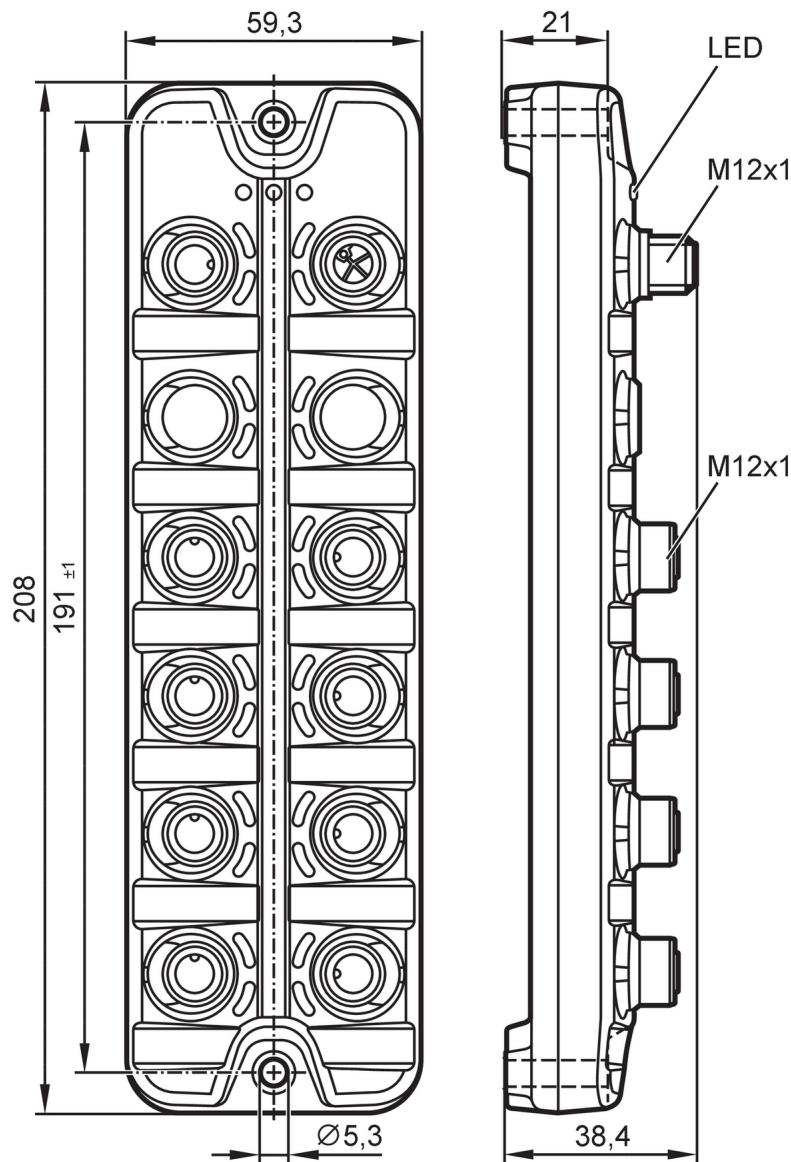


AL2507



IO-Link input/output module

IOL MOD PL 8XMP/DX E D M12 IP69K



Depending on the version some LEDs are inactive



Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	50; (US)
Protection class		III
Additional voltage supply	[V]	18...30 DC; (UA)
Max. current consumption from additional supply	[mA]	16000; (UA)
Inputs / outputs		
Total number of inputs and outputs		16
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)	
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]	2000	
Max. current load outputs total [A]	16	
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]	2000
	available factors for the controller [PID]	Kp, Ki, Kd
	currently requested resolution [mA]	1
	Accuracy PWM-I Ausgang [%]	2,2
	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	



IO-Link input/output module

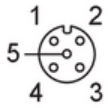
IOL MOD PL 8XMP/DX E D M12 IP69K

Min. process cycle time	[ms]	4	
Supported DeviceIDs	Type of operation	DeviceID	
	Acyclic enhanced parametrisation	1449	
	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; 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	
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]	59	
Safety classification			
Complies with the requirements	ISO 13849-1 PL d		
Mechanical data			
Weight	[g]	410.9	
Dimensions	[mm]	26 x 59.3 x 208	
Material	housing: PA grey; Socket: stainless steel (1.4404 / 316L)		
Sealing material	EPDM		
Tightening torque	[Nm]	< 0.8	
Displays / operating elements			
Display	Power	4x LED, green	
	fault	3 x LED, red	
	Function	16x LED, yellow	



IO-Link input/output module

IOL MOD PL 8XMP/DX E D M12 IP69K

Accessories	
Accessories (optional)	protective cap for M12 sockets
Remarks	
Remarks	Using the device within a system with requirements for functional safety is possible by deactivating the actuator voltage UA without interaction. For further information on functional safety, please refer to the operating instructions supplement under "Downloads".
Pack quantity	1 pcs.
Electrical connection - AUX	
Connector: 1 x M12; coding: L; Contacts: 5	
	
X31	
1:	n.c.
2:	L- (UA)
3:	n.c.
4:	L+ (UA)
5:	FE
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: EPDM	
	
X1.0...X1.7	
1:	L+ (UA) Sensor supply
2:	MP2 DI2/DO2
3:	L- (UA) Sensor supply
4:	MP1 DI1/DO1
5:	FE