

AL2303



IO-Link input/output module

IOL MOD SL 8XMP/DX B 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)
Max. current consumption from additional supply	[mA]	3600; (UA)
Inputs / outputs		
Total number of inputs and outputs		16



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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		UA	
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		UA	
Interfaces			
Communication interface		IO-Link	
SDCI standard		IEC 61131-9	
Transmission type		COM3 (230,4 kBaud)	
IO-Link revision		1.1	
SIO mode		no	
Required master port type		B	
Min. process cycle time [ms]		4	
Supported DeviceIDs		Type of operation	DeviceID
		Acyclic parametrisation	1406
		Factory setting: parametrisation via Pdout	1405
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	
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



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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	

Mechanical data		
Weight	[g]	467.716
Housing		rectangular
Type of mounting		backplane mounting
Dimensions	[mm]	208 x 59.3 x 38.4
Materials		housing: PA orange; socket: brass nickel-plated
Sealing material		FKM
Tightening torque	[Nm]	< 0.8

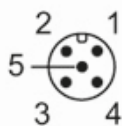
Displays / operating elements		
Display	operation	1 x LED, green
	fault	1 x LED, red
	function	1 x LED, yellow

Accessories	
Accessories (optional)	protective cap for M12 sockets

Remarks	
Pack quantity	1 pcs.

Electrical connection - IO-Link

Connector: 1 x M12; coding: A



X1		
1		+ 24 V DC (US)
2		+ 24 V DC (UA)
3		GND (US)
4		IO-Link
5		GND (UA)



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Electrical connection - inputs / outputs

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



X1.0...X1.7

1	Sensor supply + 24 V DC (UA)
2	multifunctional input I2 digital output O2
3	Sensor supply GND (UA)
4	digital input/output I/O1
5	not used