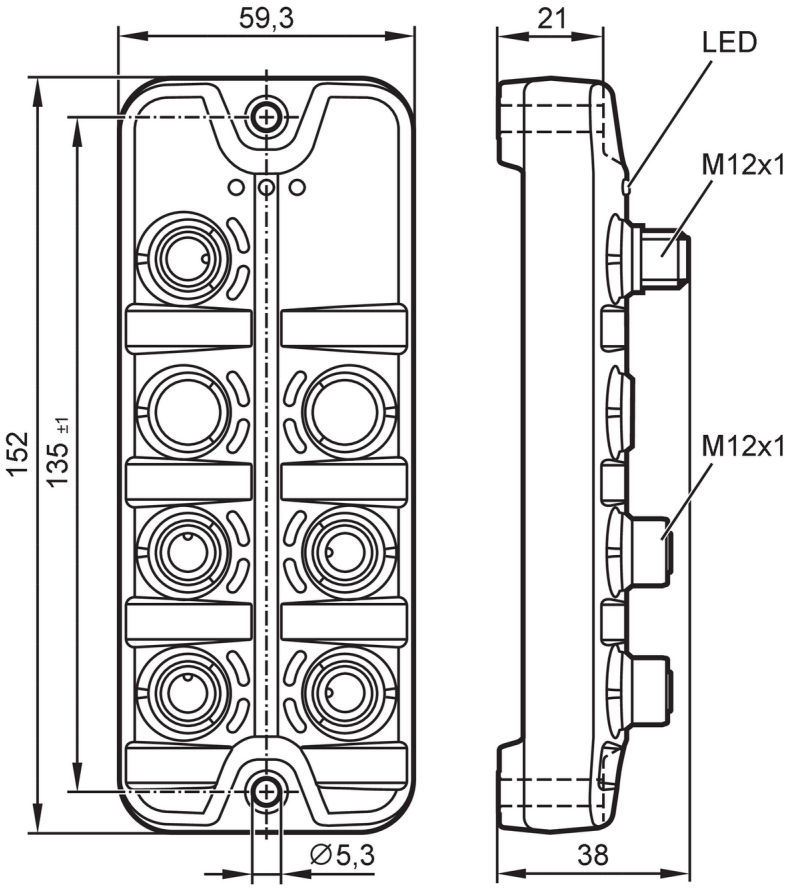
AL2250

IO-Link input/output module

IOL MOD SL 4XAI/AO A M12 IP69K



Depending on the version some LEDs are inactive

Electrical data		
Operating voltage	[V]	18...28 DC
Current consumption	[mA]	< 700; (US)
Protection class		III
Sensor supply US		
Max. current load total	[A]	0.4
Inputs / outputs		
Number of inputs and outputs		Number of analog inputs: 4; Number of analog outputs: 4
Inputs		
Number of analog inputs		4; (configurable)
Analog input (current)	[mA]	4...20
Input resistance	[Ω]	275
Analog input (voltage)	[V]	0...10
Input resistance	[kΩ]	70
Resolution		1 µA (4...20 mA);1 mV (0...10 V)
Accuracy	[%]	± 0,3
A/D converter		
Resolution		16 bit

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Outputs			
Number of analog outputs		4; (configurable)	
Analog current output	[mA]	4...20	
Max. load	[Ω]	600; (4...20 mA)	
Analog voltage output	[V]	0...10	
Min. load	[Ω]	1000; (0...10 V)	
Resolution of analog output		1 µA (4...20 mA);1 mV (0...10 V)	
Precision analog output	[%]	± 0,3	
Short-circuit protection		yes	
Overload protection		yes	
D/A converters			
Resolution of analog output		16 bit	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM3 (230,4 kBaud)	
IO-Link revision		1.1.4	
SDCI standard		IEC 61131-9	
Profiles		FWUP	Firmware Update for IO-Link Devices
		Common - I&D	Identification and Diagnosis
		Function	Locator
		Function	ProductURI
SIO mode		no	
Required master port class		A	
Min. process cycle time	[ms]	2	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	2007
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: IP69K)	
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	
Mechanical data			
Weight	[g]	294	

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Housing		rectangular
Type of mounting		Backplane mounting
Dimensions	[mm]	152 x 59.3 x 38
Material		housing: PA grey; Socket: stainless steel (1.4404 / 316L)
Sealing material		EPDM

Displays / operating elements

Display	Power	2 x LED, green
	fault	3 x LED, red
	Function	8 x LED, yellow

Accessories

Accessories (optional)	protective cap for M12 sockets

Remarks

Remarks	For information about installation and operation please see the operating instructions.
Pack quantity	1 pcs.

Electrical connection - IO-Link

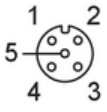
Connector: 1 x M12; coding: A; Contacts: 4

XC1

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

Electrical connection - inputs / outputs

Connector: 4 x M12; coding: A; Contacts: 5; sealing: EPDM



X1...X4

1	L+	
2	IN	AI
3	L-	
4	OUT	AO
5	FE	

AI: analog input; AO: analog output; FE: functional earth; DATA: Communication interface