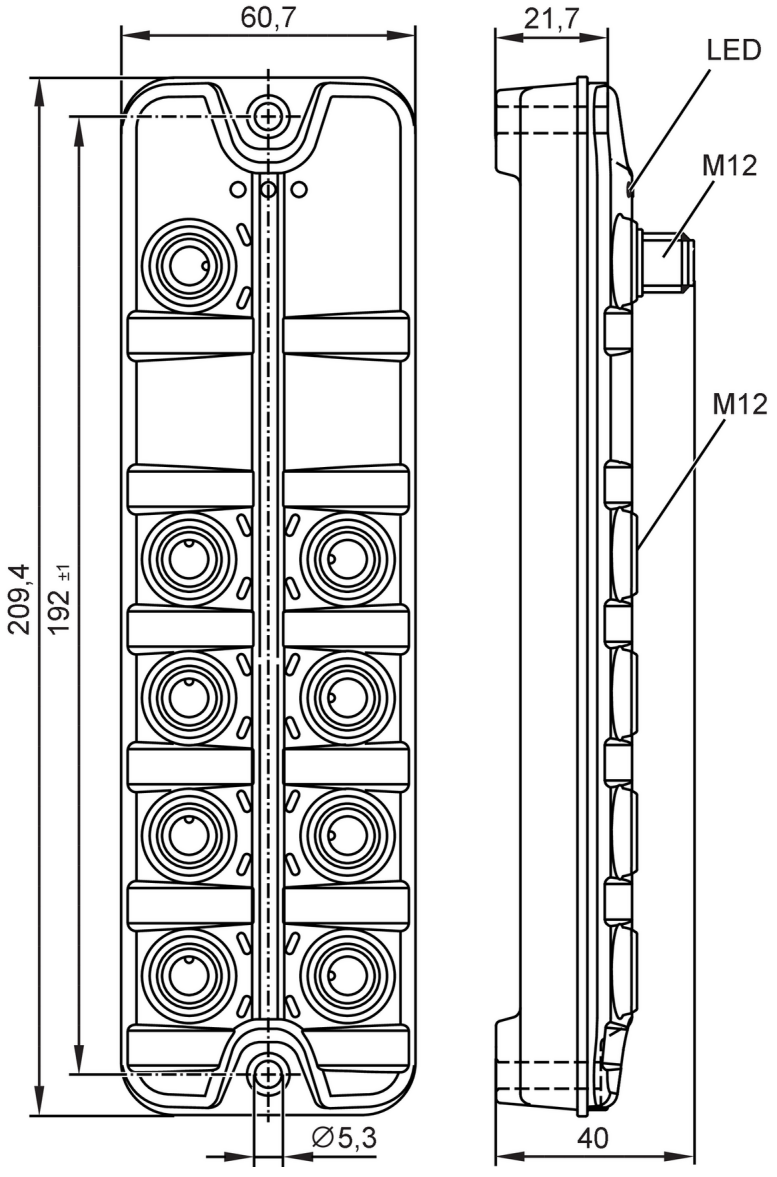
AL2821

IO-Link input/output module

IOL MOD AL 8XDX/DX A M12 IP67



Depending on the version some LEDs are inactive

Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	50...1050; (US)
Protection class		III
Inputs / outputs		
Total number of inputs and outputs		16
Number of inputs and outputs		Number of digital inputs: 16; 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		US

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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	
Outputs			
Number of digital outputs		16; (configurable)	
Max. current load per output	[mA]	1000	
Max. current load outputs total	[A]	1	
Short-circuit protection		yes	
Actuator supply outputs		US	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM3 (230,4 kBaud)	
IO-Link revision		1.1	
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]	1	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	1990
Note		For further information please see the IODD PDF file at "Downloads"	
Operating conditions			
Ambient temperature	[°C]	-40...70	
Storage temperature	[°C]	-40...80	
Max. relative air humidity	[%]	90	
Max. height above sea level	[m]	2000	
Protection		IP 65; IP 67	
Pollution degree		2	
Chemical media		ISO 16750-5	AA, BA, BD, HLP, CC, DB, DC, DD, CA
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]	197.287	
Housing		rectangular	

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Type of mounting		Backplane mounting
Dimensions	[mm]	209.4 x 60.7 x 40
Material		housing: PC black
Sealing material		FKM

Displays / operating elements

Display	Power	2 x LED, green
	fault	3 x LED, red
	Function	16 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; Contacts: 4; Locking: PC

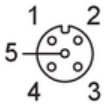
XC1

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

DI: digital input; DO: digital output; MP: multi-function connection; DATA: Communication interface

Electrical connection - inputs / outputs

Connector: 8 x M12; coding: A; Contacts: 4; Locking: PC; sealing: FKM



X1...X8

1	L+	(US)
2	MP2	DI2, DO2
3	L-	(US)
4	MP1	DI1, DO1
5	n.c.	