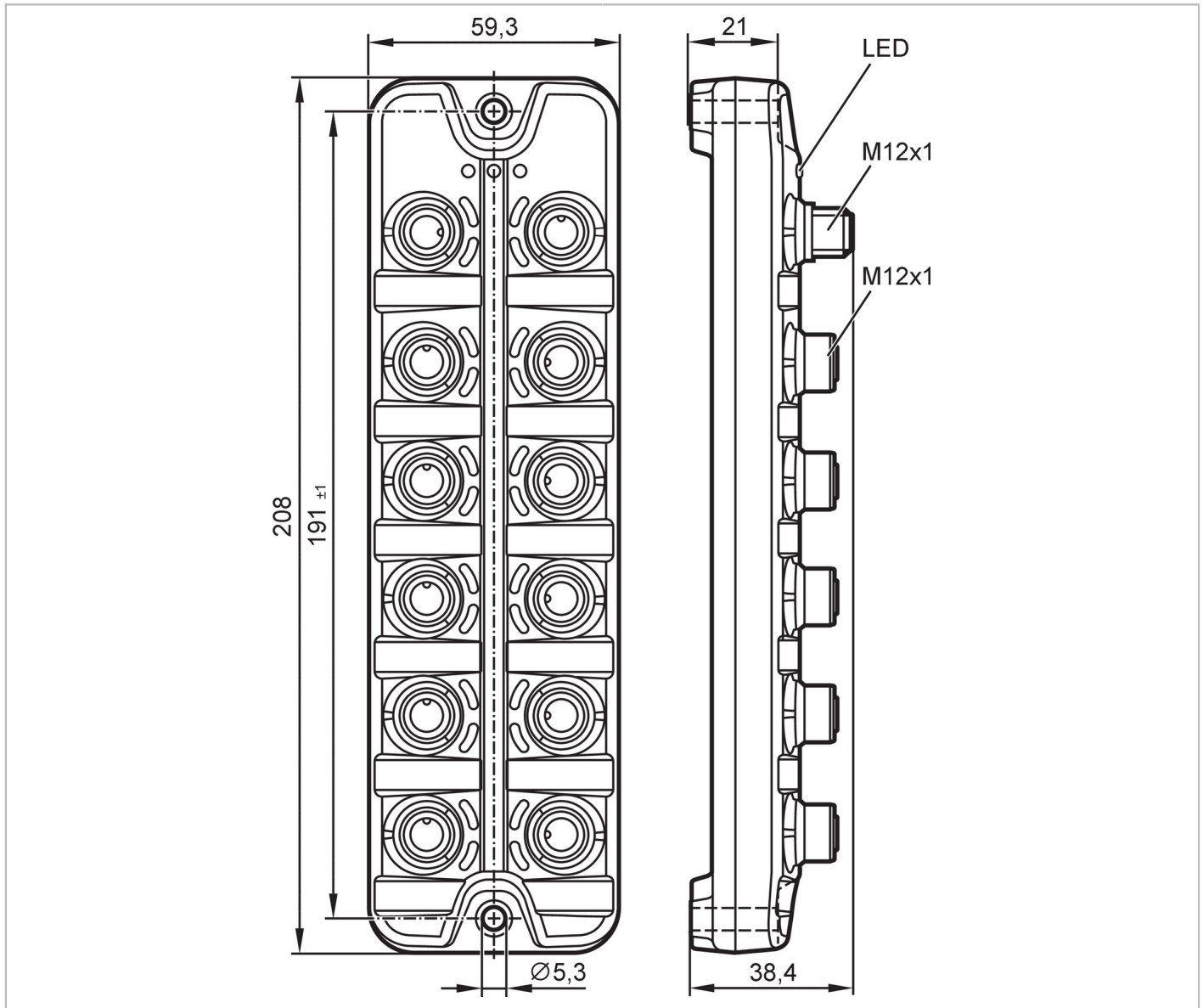


# AL2331



## IO-Link CompactLine module

IO-Link Module 10x2 DO M12 IP67



Application	
Application	I/O modules for field applications
Electrical data	
Operating voltage [V]	18...30 DC; (US)
Current consumption [mA]	50; (US)
Protection class	III
Additional voltage supply [V]	18...30 DC; (UA)
Max. current consumption from additional supply [mA]	3600; (UA)
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 20
Outputs	
Number of digital outputs	20; (10 x 2)

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Circuit	PNP
Output function	Transistor
Max. current load per output [mA]	1800
Max. current load outputs total [A]	3.6; (Max. current load per output side: 1800 mA)
Electrically separated	yes

### Interfaces

Communication interface	IO-Link	
Supported DeviceIDs	<b>Type of operation</b>	<b>DeviceID</b>
	IO-Link Device	996
IO-Link Device		
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
	Function	Device diagnosis
SIO mode	no	
Min. process cycle time [ms]	5.6	

### 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	
Degree of soiling	2	
Chemical media	ISO 16750-5	AA, BA, BD, HLP, CC, DB, DC, DD, CA
	NEMA 250 5.13.1	AA

### 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]	41	

### Mechanical data


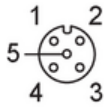

Weight [g]	408	
Housing	rectangular	
Type of mounting	Backplane mounting	
Dimensions [mm]	208 x 59.3 x 38.4	
Material	housing: PA; Socket: brass nickel-plated	
Sealing material	FKM	

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Displays / operating elements		
Display	Power	LED, green
	errors	LED, red
	Function	LED, yellow
Accessories		
Accessories (optional)	Protective caps M12	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - IO-Link		
Connector: 1 x M12; coding: A; Contacts: 4		
		
X1		
1	+ 24 V DC (US)	
2	not used	
3	GND (US)	
4	IO-Link	
Electrical connection - Outputs		
Connector: 10 x M12; coding: A; Contacts: 4; sealing: FKM		
		
X1.0...X1.9		
1	not used	
2	DO2	
3	GND (UA)	
4	DO1	
5	not used	
Electrical connection - voltage supply		
Connector: 1 x M12; coding: A; Contacts: 4		
		
X31		
1	+ 24 V DC (UAL)	
2	GND (UAR)	
3	GND (UAL)	
4	+ 24 V DC (UAR)	