

AL2221



IO-Link input/output module

IOL MOD SL 8XDX/DX A M12 IP69K



Depending on the version some LEDs are inactive



Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	1100; (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)



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Input circuit of digital inputs	PNP; (type 3 (IEC 61131-2))
Sensor supply of the inputs	US
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

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				
SDCI standard	IEC 61131-9				
Transmission type	COM3 (230,4 kBaud)				
IO-Link revision	1.1				
SIO mode	no				
Required master port type	A				
Min. process cycle time [ms]	4				
Supported DeviceIDs	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>1314</td></tr> </table>	Type of operation	DeviceID	default	1314
Type of operation	DeviceID				
default	1314				
Note	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; IP 69K; (operation with stainless steel protective caps: IP 69K)				
Protection rating (NEMA 250)	6P				
Pollution degree	2				
Chemical media	<table> <tr> <td>ISO 16750-5</td><td>HLP, CC, DB, DC, DD, CA</td></tr> <tr> <td>NEMA 250 5.13.1</td><td>AA</td></tr> </table>	ISO 16750-5	HLP, CC, DB, DC, DD, CA	NEMA 250 5.13.1	AA
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NEMA 250 5.13.1	AA				

Tests / approvals

EMC	<table> <tr> <td>EN 61000-6-2</td><td></td></tr> <tr> <td>EN 61000-6-3</td><td></td></tr> <tr> <td>IEC 61131-9</td><td></td></tr> </table>	EN 61000-6-2		EN 61000-6-3		IEC 61131-9	
EN 61000-6-2							
EN 61000-6-3							
IEC 61131-9							
Shock resistance	DIN EN 60068-2-27						
Vibration resistance	<table> <tr> <td>DIN EN 60068-2-64</td><td></td></tr> <tr> <td>DIN EN 60068-2-6</td><td></td></tr> </table>	DIN EN 60068-2-64		DIN EN 60068-2-6			
DIN EN 60068-2-64							
DIN EN 60068-2-6							
MTTF [years]	46						

Mechanical data

Weight [g]	454.235
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Housing	rectangular
Type of mounting	backplane mounting
Dimensions [mm]	208 x 59.3 x 38.4
Materials	housing: PA grey; socket: stainless steel (316L/1.4404)
Sealing material	EPDM

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
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Remarks

Pack quantity	1 pcs.
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Electrical connection - IO-Link

Connector: 1 x M12; coding: A

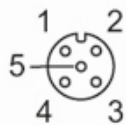


X1

1	+ 24 V DC (US)
2	not used
3	GND (US)
4	IO-Link

Electrical connection - inputs / outputs

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



X1.0...X1.7

1	+ 24 V DC (US)
2	I/O2
3	GND (US)
4	I/O1
5	not used