
















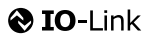


PROFINET – IO-Link Masters (30 mm, M12 Hybrid), 4 Digital Inputs, 8 IO-Link Channels, M12 or M8 I/O with M12 Hybrid Y-coded Data (LAN) and Power Supply Connection

Product Description		
Type	0980 ESL 109-331	0980 ESL 109-332
	        	        
Description	LION-P PROFINET device, 4 digital input channels, 8 IO-Link channels, M12 Hybrid Y-coded data (LAN) and power supply connection, 8-poles, 30 mm housing	Lion-P PROFINET device, 4 digital input channels, 8 IO-Link channels, M8 I/O, 5-poles, B-coded, M12 Hybrid Y-coded data (LAN) and power supply connection, 8-poles, 30 mm housing
Order No.	934862001	934840001
Technical Data		
Protection Degree	IP65, IP67, IP69K (only if mounted and locked in combination with Hirschmann/Lumberg connector)	
Ambient Temperature (Operation)	-20 °C to +70 °C	
Dimensions (W x H x D)	30 x 43 x 204 (mm)	30 x 43 x 183 (mm)
Weight	448 g	413 g
Housing Material	Metal, Zinc Die-cast	
Bus System		
Protocol	PROFINET IO Device	
Connection	M12, Y-coded, 8-poles	
Transmission Rate	Fast Ethernet (100 Mbit/s), Full Duplex	
Rotary Address Switches	No	
Power Supply		
Nominal Voltage	24 V DC (SELV/PELV)	
Nominal Voltage Range	18 to 30 V DC	
Connection	M12, Y-coded, 8-poles	
Current Carrying Capacity of Connector	6 A	
Current Consumption (typ.)	180 mA (+/-20% at 24 V DC)	
IO-Link Master Channels		
Number of Channels	8	
Connection	M12, 5-poles, A-coded	M8, 5-poles, B-coded
Number of A Ports (IOL)	4 (X1 to X4)	
Number of B Ports (IOL)	4 (X5 to X8)	
Nominal Voltage (IOL)	24 V DC via US (system power supply)	
Nominal Current C/Q (Pin 4)	500 mA	
Nominal Current L+/L- (Pin 1 and 3)	500 mA	
Nominal Current Uaux (Pin 2, B Ports)	max. 4 A per module	
Input Channels		
Number of Channels	max. 12, 4 x (Pin 2, fixed) + 8 x (Pin 4, configurable)	
Connection	M12, 5-poles, A-coded	M8, 5-poles, B-coded
Channel Type	Type 1 acc. to IEC 61131-2	
Nominal Voltage	24 V DC via US (system power supply)	
Sensor Current Supply	500 mA per Port via L+/L-	
Sensor Type	PNP	
Output Channels		
Number of Channels	max. 8 (Pin 4, configurable)	
Connection	M12, 5-poles, A-coded	M8, 5-poles, B-coded
Channel Type	p-switching	
Nominal Voltage	24 V DC via Uaux (actuator power supply)	
Output Current per Channel	max. 500 mA (Pin 4)	
Output Current per Module	max. 9 A	
Protective Circuit	Electronically: Overload protection, short-circuit protection	
Galvanically Isolated	No	

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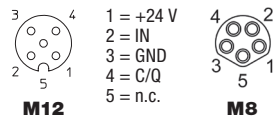
PROFINET – IO-Link Masters (30 mm, M12 Hybrid), 4 Digital Inputs, 8 IO-Link Channels, M12 or M8 I/O with M12 Hybrid Y-coded Data (LAN) and Power Supply Connection

Diagnostic Indication | 0980 ESL 109-331_| 0980 ESL 109-332

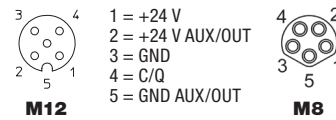
LED	Indicator	Condition
1...8 A	Yellow	Channel status
1...8 DIA A	Red	Periphery error
1...8 B	White	Channel status
1...8 DIA B	Red	Periphery error
1...8 I/O-Link	Green Green blinking Off	No I/O-Link device connected I/O-Link communication available Port is not configured as I/O-Link
P1 Lnk/Act	Green Green blinking Off	Connection to an Ethernet device I/O device exchanging data No connection to another device
P2 Lnk/Act	Green Yellow blinking Off	Connection to an Ethernet device I/O device exchanging data No connection to another device
BF	Red Off	Bus error, no data exchange with I/O controller via PROFINET No error message
DIA	Red Red blinking Off	Common indicator for periphery errors Firmware update No error message
Us	Green	Voltage 19 V ≤ Us ≤ 30 V
U _{AUX}	Green Red	Voltage 19 V ≤ U _L ≤ 30 V U _L Voltage < 19 V or U _L > 30 V

Pin Assignment

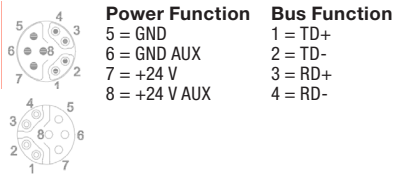
IO-Link Port Type A (X01...X04), M12 A-coded / M8 B-coded



IO-Link Port Type B (X05...X08), M12 A-coded / M8 B-coded



M12 Hybrid Power Supply and Bus Function, Y-coded



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