

Multi-protocol – 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				
Туре	0980 ESL 199-331		0980 ESL 199-332	
	NEW! UL 🍗 🖦	+ • • • • • • • • • • • • • • • • • • •	NEW!	UL 🍗 🖦 📻
	EtherNet/IP	IO- Link	PROFII NET	EtherNet/IP IO-Link
	Hans 2000			
Description	LioN-P Multi-protocol module, PROFINET or EtherNet digital input channels, 8 IO-Link channels, M12 Hybri (LAN) and power supply connection, 8-poles, 30 mm	d Y-coded data	digital input channel	ol module, PROFINET or EtherNet/IP device, 4 s, 8 IO-Link channels, M8 I/O, 5-poles, B-coded, data (LAN) and power supply connection, 8-poles,
Order No.	934964001		934964002	
Technical Data				
Protection Degree	IP65, IP67, IP69K (only if moun	ted and locked in c	ombination with Hirso	chmann/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/EtherNet/IP 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		0.00	6	
Number of Channels	max. 8 (Pin 4, configurable)			
Connection Channel Type	M12, 5-poles, A-coded	n e	tahina	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	Electronicaly: Overload protection, short-circuit protection			
Galvanically Isolated	No No			

Continued Next Page

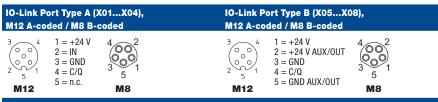


Multi-protocol – IO-Link Masters (30 mm, M12 Hybrid), 4 Digital Inputs, 8 IO-Link Channels, M12 or M8 I/O with M12 Hybrid Y-coded Data (LAN) and Power Supply Connection

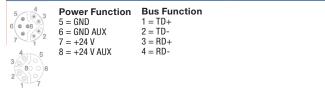
Diagnostic Indication | 0980 ESL 199-331 and 0980 ESL 199-332

LED	Indicator	Condition		
18 A	Yellow	Channel status		
18 DIA A	Red	Periphery error		
18 B	White	Channel status		
18 DIA B	Red	Periphery error		
18 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 No error message		
DIA	Red Red blinking Off	Common indicator for periphery errors Firmware update No error message		
MS (Module status)	Green Green blinking Red/green blinking Red blinking Off	Device is ready for operating Wrong configuration Self test is running Firmware update IP address is available		
NS (Network status)	Green blinking Green Red blinking Red Red/green blinking Off	IP address is available Connection to master is available At least one connection has timed out IP address is already being used by another device Self test is running Device is switched off/device has no IP address		
Us	Green	Voltage 19 V <= Us <= 30 V		
Uaux	Green Red	Voltage 19 V <= UL <= 30 V UL Voltage < 19 V or UL > 30 V		

Pin Assignment



M12 Hybrid Power Supply and Bus Function, Y-coded



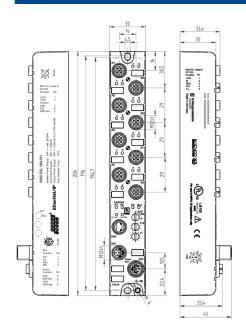
Continued Next Page



Multi-protocol – 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

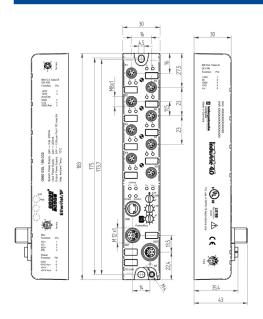
Technical Drawing

0980 ESL 199-331





0980 ESL 199-332





The application of these products in harsh environments should always be checked before use. Technical modifications reserved.