



















## 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
	        
	        
Description	<p>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</p> <p>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</p>
Order No.	934862001
Order No.	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)
Weight	448 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
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
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
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

Continued Next Page

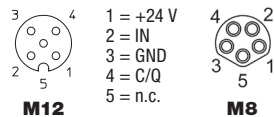
## PROFINET – IO-Link Masters (30 mm, M12 Hybrid), 4 Digital Inputs, 8 IO-Link Channels, M12 or M8 I/O with M12 Hybrid Y-coded Data (LAN) and Power Supply Connection

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

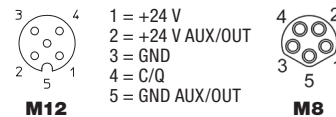
LED	Indicator	Condition
1...8 A	Yellow	Channel status
1...8 DIA A	Red	Periphery error
1...8 B	White	Channel status
1...8 DIA B	Red	Periphery error
1...8 I/O-Link	Green Green blinking Off	No I/O-Link device connected I/O-Link communication available Port is not configured as I/O-Link
P1 Lnk/Act	Green 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 <sub>AUX</sub>	Green Red	Voltage 19 V ≤ U <sub>L</sub> ≤ 30 V U <sub>L</sub> Voltage < 19 V or U <sub>L</sub> > 30 V

### Pin Assignment

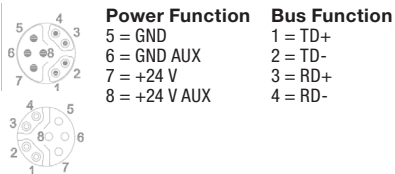
#### IO-Link Port Type A (X01...X04), M12 A-coded / M8 B-coded



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



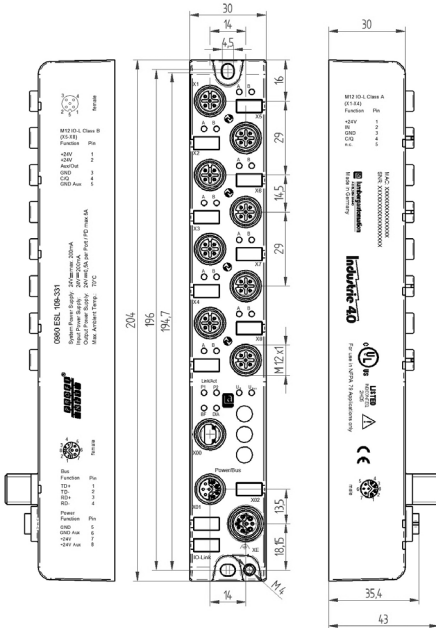
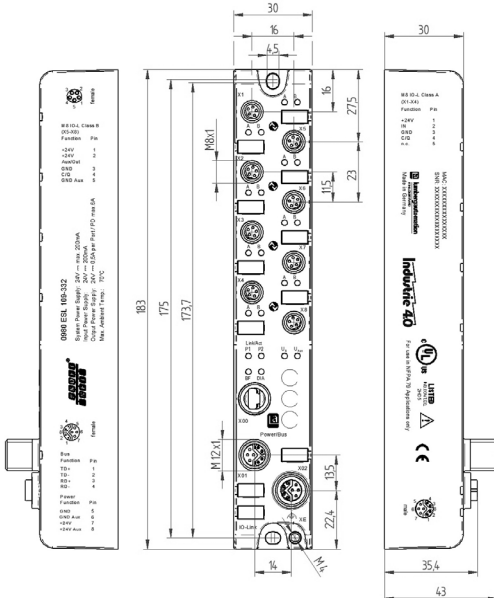
#### M12 Hybrid Power Supply and Bus Function, Y-coded



Continued Next Page

## 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

### Technical Drawing

**0980 ESL 109-331**

**0980 ESL 109-332**


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