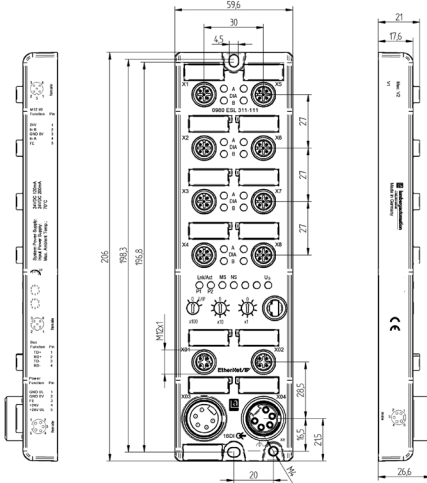




## LioN-Power Active I/O M12, 7/8" Power, EtherNet/IP, 16DI



<b>Type</b>	0980 ESL 311-111
<b>Product Description</b>	LioN-P EtherNet/IP device, 16 digital input channels, M12 LAN connection, 4-poles, D-coded, 7/8" power supply, 5-poles

Diagnostic indication		
LED	Indication	Condition
1...8 A	Yellow	Channel status
1...8 DIA A	Red	Peripheral fault
1...8 B	White	Channel status
1...8 DIA B	Red	Peripheral fault
P1 Lnk/Act	Green Green blinking Off	Connection to an Ethernet subscriber IO device is in data exchange No connection to another subscriber
P2 Lnk/Act	Green Yellow blinking Off	Connection to an Ethernet subscriber IO device is in data exchange No connection to another subscriber
MS (Module Status)	Green Green blinking Red-Green blinking Red blinking Off	Module is ready Incorrect Configuration Self-test is carried out Firmware update Device is switched off
NS (Network Status)	Green blinking Green Red Red blinking Red-Green blinking Off	IP address present Connection to master is present At least one connection has timed out IP address is already used by another device Self-test is carried out Device is switched off
U <sub>s</sub>	Green Red	Voltage 19V <= U <sub>s</sub> <= 30V U <sub>s</sub> Voltage < 19V or U <sub>s</sub> > 30V

Bit assignment								
Bit	7	6	5	4	3	2	1	0
<b>Input Data: 16DI</b>								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Pin assignment		
<b>M12 I/O port, A-coded</b> <ul style="list-style-type: none"> <li>1 = +24V</li> <li>2 = In B</li> <li>3 = GND OV</li> <li>4 = In A</li> <li>5 = FE</li> </ul>	<b>Power supply 7/8"</b> <ul style="list-style-type: none"> <li>1 = GND UL</li> <li>2 = GND OV</li> <li>3 = FE</li> <li>4 = +24V</li> <li>5 = +24V UL</li> </ul>	<b>M12 EtherNet/IP, D-coded</b> <ul style="list-style-type: none"> <li>1 = TD+</li> <li>2 = RD+</li> <li>3 = TD-</li> <li>4 = RD-</li> </ul>

<b>Part number</b>	<b>Order number</b>
0980 ESL 311-111	934880001

## LioN-Power Active I/O M12, 7/8" Power, EtherNet/IP, 16DI

Technical Data	
Environmental Temperature	-20 °C to +70 °C (Operation)
Housing Material	Metal Zinc Die-cast
Contact Bearer	PA/TPU
Contact	M12 A, D-coded CuSn, Gold-plated 7/8" CuZn, Gold-plated
O-ring	FKM
Mechanical Data	
Weight	520 g
Protection Class (IEC 60529)	IP65, IP67 (only if mounted and locked in combination with Hirschmann/Lumberg connector)
Module Supply	
Rated Voltage	24V DC
Voltage Range	19 to 30V DC
Nominal Current	9 A
Connection Type	7/8" power connector, 5 poles
Number	2
Bus-System	
Network	EtherNet/IP
Transmission Rate	10/100 Mbit/s
Address Range	0 to 255
Connection Type	M12 LAN connection, 4 poles, D-coded
Number	2
Inputs	
Number of Digital Channels	16
Type	Type 3 acc. IEC 61131-2
Sensor Type	PNP
Status Indicator	LED white or yellow per channel
Diagnostic Indicator	LED red per port
Sensor Current Supply	200 mA per port

The application of these products in harsh environments should always be checked before use.  
 Specifications subject to alteration.