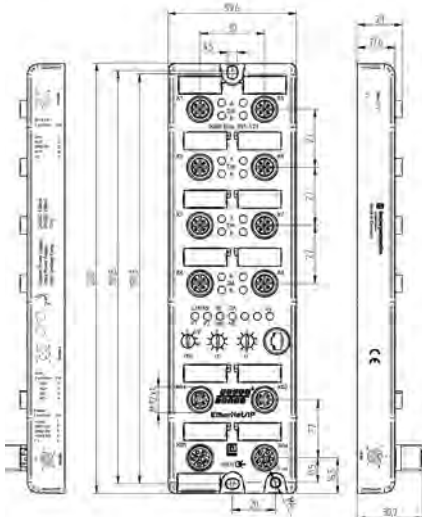




## LioN-Power Active I/O M12, M12 Power (L-coded), Multi-protocol, 16DI



<b>Type</b>	0980 ESL 391-121	
<b>Product Description</b>	LioN-P Multi-protocol module, PROFINET or EtherNet/IP device, 16 digital input channels, M12 LAN connection, 4-poles, D-coded, M12 L-coded power supply, 5-poles	
<b>Diagnostic indication</b>		
<b>LED</b>	<b>Indication</b>	<b>Condition</b>
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
<b>P1 Lnk/Act</b>	Green Green blinking Off	Connection to an Ethernet subscriber IO device is in data exchange No connection to another subscriber
<b>P2 Lnk/Act</b>	Green Yellow blinking Off	Connection to an Ethernet subscriber IO device is in data exchange No connection to another subscriber
<b>BF</b>	Red Off	Bus fault, no communication No fault present
<b>DIA</b>	Red Red blinking Off	Collective display peripheral fault Firmware update No fault present
<b>MS (Module Status)</b>	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
<b>NS (Network Status)</b>	Green blinking Green Red blinking Red Red-green blinking Off	IP address present Connection to the 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
<b>U<sub>s</sub></b>	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>								
<b>Byte 0</b>	4B	4A	3B	3A	2B	2A	1B	1A
<b>Byte 1</b>	8B	8A	7B	7A	6B	6A	5B	5A

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

Part number	Order number
0980 ESL 391-121	934879001

## LioN-Power Active I/O M12, M12 Power (L-coded), Multi-protocol, 16DI

Technical Data	
Environmental Temperature	-20 °C to +70 °C (Operation)
Housing Material	Metal Zinc Die-cast
Contact bearer	PA
Contact	M12 A, D-coded CuSn, Gold-plated M12, L-coded CuNi, Gold-plated
O-ring	FKM
Mechanical Data	
Weight	500 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	16 A
Connection Type	M12 Power, 5-poles, L-coded
Number	2
Bus-System	
Network	PROFINET, EtherNet/IP
Transmission Rate	10/100 Mbit/s
Connection Type	M12 LAN connection, 4 poles, D-coded
Address Range	0 to 255 (not applicable if in PROFINET mode)
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.