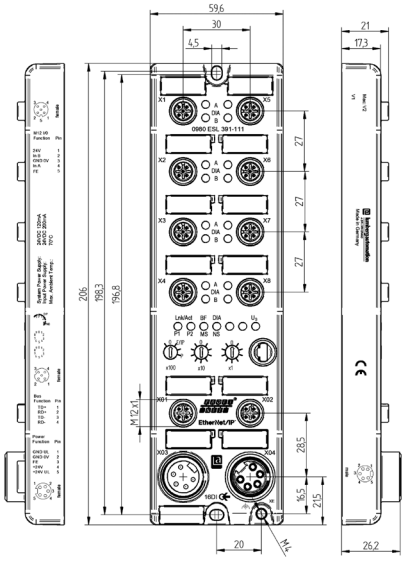
LioN-Power Active I/O M12, 7/8" Power, Multi-protocol, 16DI



Type	0980 ESL 391-111
Product Description	LioN-P Multi-protocol module, PROFINET or EtherNet/IP device, 16 digital input channels, M12 LAN connection, 4-poles, D-coded, 7/8" power supply, 5-poles

Diagnostic indiction		
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
BF	Red Off	Bus fault, no communication No fault present
DIA	Red Red blinking Off	Collective display peripheral fault Firmware update No fault present
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_s	Green Red	Voltage 19V <=U_s<= 30V U_s Voltage < 19V or U_s> 30V

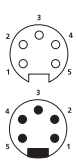
Bit assignment								
Bit	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**0**
				Input Data: 16DI				
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Pin assignment

M12 I/O port, A-coded

1 = +24V
2 = In B
3 = GND 0V
4 = In A
5 = FE

Power supply 7/8"



1 = GND UL
2 = GND 0V
3 = FE
4 = +24V
5 = +24V UL

M12 PROFINET, EtherNet/IP, D-coded

1 = TD+
2 = RD+
3 = TD-
4 = RD-

Part number	Order number
0980 ESL 391-111	934882001

LioN-Power Active I/O M12, 7/8" Power, Multi-protocol, 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	PROFINET, EtherNet/IP
Transmission Rate	10/100 Mbit/s
Address Range	0 to 255 (not applicable if in PROFINET mode)
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.