

# LioN-Power Multi-protocol – 8 Digital Inputs / 8 Digital Outputs, M12 L-coded or 7/8" Power Supply Connection, PROFINET, EtherNet/IP or EtherCAT

Product Description					
Туре	0980 ESL 393-121	0980 ESL 393-111			
	NEW!	NEW! UL 🏲 🖦 📻			
	PROFILE NET	PROFILE NET IN Ether Net /IP			
	Ether <b>CAT.</b> →	Ether CAT.			
Description	LioN-P Multi-protocol module, PROFINET, EtherNet/IP or EtherCAT device, 8 digital input and 8 digital output channels with galvanic isolation M12 LAN connection, 4-poles, D-coded, M12 L-coded power supply, 5-poles	LioN-P Multi-protocol module, PROFINET, EtherNet/IP or EtherCAT device, 8 digital input and 8 digital output channels with galvanic isolation, M12 LAN connection, 4-poles, D-coded, 7/8" power supply, 5-poles			
Order No.	934879003	934882003			
Technical Data					
Protection Degree	IP65, IP67, IP69K (only if mounted and locked in combination with Hirschmann/Lumberg connector)	IP65, IP67 (only if mounted and locked in combination with Hirschmann/Lumberg connector)			
Ambient Temperature (Operation)	-20 °C t	o +70 °C			
Dimensions (W x H x D)	59.6 x 30.7 x 200 (mm)	59.6 x 26.2 x 206 (mm)			
Weight	500 g	520 g			
Housing Material	Metal, Zir	nc Die-cast			
Bus System					
Protocol	PROFINET /EtherNet/IP/EtherCAT I/O Device				
Connection	M12 LAN connection, 4-poles, D-coded				
Transmission Rate	Fast Ethernet (10/100 Mbit/s), Full Duplex				
Rotary Address Switches	Yes, 3x				
Power Supply					
Nominal Voltage	24 V DC (SELV/PELV)				
Nominal Voltage Range		30 V DC			
Connection	M12, L-coded, 5-poles	7/8", 5-poles			
Current Carrying Capacity of Connector	16 A	9 A			
Current Consumption (typ.) Input Channels	160 IIIA (+/-2)	0% at 24 V DC)			
Number of Channels		0			
Connection	8 M12, 5-poles, A-coded				
Channel Type	Type 3 acc. to IEC 61131-2				
Nominal Voltage	24 V DC via US (system power supply)				
Sensor Current Supply	200 mA per Port				
Sensor Type	PNP				
Output Channels					
Number of Channels		8			
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. 2 A				
Output Current per Module	max. 9 A				
Protective Circuit	Electronicaly: Overload protection, short-circuit protection				
Galvanically Isolated	Yes				

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# **Bit Assignment**

Bit	7	6	5	4	3	2	1	0
M12 Input 8DI								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
M12 Output 8DO								
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

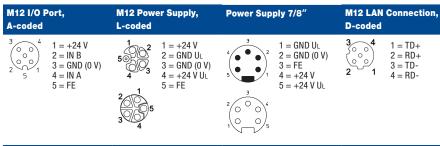


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### Diagnostic Indication | 0980 ESL 393-121 and 0980 ESL 393-111

LED	Indicator	Condition		
18 A	Yellow	Channel status		
18 DIA A	Red			
18 B	White	Periphery error Channel status		
18 DIA B	Red	Periphery error		
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		
PROFINET				
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		
EtherNet/IP				
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		
EtherCAT				
RUN	Green	Device is in state OPERATIONAL		
	Green blinking	Device is in state PRE-OPERATIONAL		
	Green single flash	Device is in state SAFE-OPERATIONAL		
	Green flickerng	Device is in state BOOTSTRAP		
	Off	Device is in state INIT		
ERR	Red	"An critical communication or application controller error has occurred "		
	Red double flash	An application watchdog timeout has occurred.		
	Red single flash	"Slave device application has changed the EtherCAT state autonomously, due to local error"		
	Red blinking	General Configuration Error		
	Red flickering	Booting Error was detected		
	Off	No error		
Us	Green Red	Voltage 19 V <= Us <= 30 V Us Voltage < 19 V or Us > 30 V		
UL	Green Red	Voltage 19 V <= UL <= 30 V UL Voltage < 19 V or UL > 30 V		

# Pin Assignment

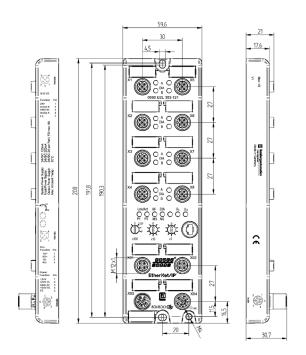




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#### **Technical Drawing**

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### 0980 ESL 393-111

