


## LioN-Power Multi-protocol – 16 Digital Outputs, M12 L-coded or 7/8” Power Supply Connection, PROFINET, EtherNet/IP or EtherCAT

Product Description		
Type	0980 ESL 392-121	0980 ESL 392-111
	         	         
Description	LioN-P Multi-protocol module, PROFINET, EtherNet/IP or EtherCAT device, 16 digital outputs channels, 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, 16 digital outputs channels, M12 LAN connection, 4-poles, D-coded, 7/8” power supply, 5-poles
Order No.	934879002	934882002
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 to +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, Zinc 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	18 to 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.)	160 mA (+/-20% at 24 V DC)	
Output Channels		
Number of Channels	16	
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	Electronically: Overload protection, short-circuit protection	
Galvanically Isolated	Yes	

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### Bit Assignment







Bit	7	6	5	4	3	2	1	0
<b>M12 Output 16D0</b>								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

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### Diagnostic Indication | 0980 ESL 392-121 and 0980 ESL 392-111

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
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
<b>PROFINET</b>		
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
<b>EtherNet/IP</b>		
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
<b>EtherCAT</b>		
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	Bootling Error was detected
	Off	No error
Us	Green	Voltage 19 V <= Us <= 30 V
	Red	Us Voltage < 19 V or Us > 30 V

### Pin Assignment

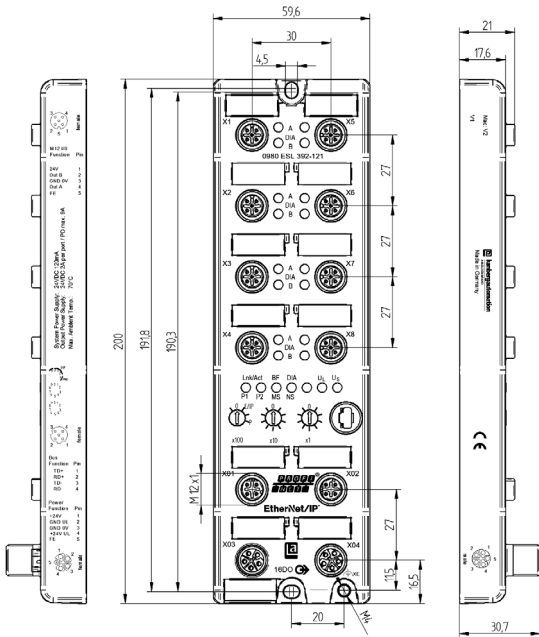
M12 I/O Port, A-coded	M12 Power Supply, L-coded	Power Supply 7/8"	M12 LAN Connection, D-coded
 <ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = IN B</li> <li>3 = GND (0 V)</li> <li>4 = IN A</li> <li>5 = FE</li> </ul>	 <ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = GND UL</li> <li>3 = GND (0 V)</li> <li>4 = +24 V UL</li> <li>5 = FE</li> </ul>	 <ul style="list-style-type: none"> <li>1 = GND UL</li> <li>2 = GND (0 V)</li> <li>3 = FE</li> <li>4 = +24 V</li> <li>5 = +24 V UL</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>
			

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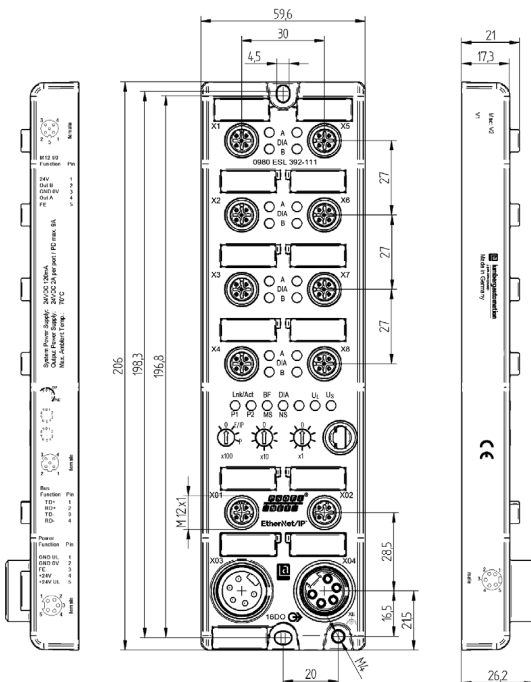
**LioN-Power Multi-protocol – 16 Digital Outputs, M12 L-coded or 7/8” Power Supply Connection, PROFINET, EtherNet/IP or EtherCAT**

**Technical Drawing**

**0980 ESL 392-121**



**0980 ESL 392-111**



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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