

LioN-Power Multi-protocol – 16 Digital Inputs/Outputs (Universal), M12 L-coded or 7/8" Power Supply Connection, PROFINET, EtherNet/IP or EtherCAT

Product Description			
Туре	0980 ESL 390-121	0980 ESL 390-111	
	NEW!	NEW!	
	PROFILE NET	NET	
	Ether CAT.	EtherCAT	
Description	LioN-P Multi-protocol module, PROFINET, EtherNet/IP or EtherCAT device, 16 digital in-/output channels, channels can be used univers as inputs or outputs, 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 in-/output channels, channels can be used universally as inputs or outputs, M12 LAN connection, 4-poles, D-coded, 7/8" power supply, 5-poles	
Order No.	934879007	934882007	
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		to 30 V DC	
Connection	M12, L-coded, 5-poles	7/8", 5-poles	
Current Carrying Capacity of Connector		9 A	
Current Consumption (typ.)	160 mA (+/-20% at 24 V DC)		
Input Channels			
Number of Channels	max. 16		
Connection	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	max. 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	Electronicaly: Overload protection, short-circuit protection		
Galvanically Isolated	Yes		

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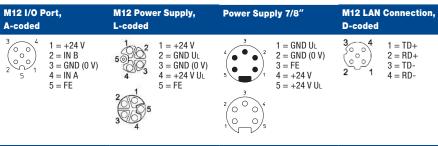


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Diagnostic Indication | 0980 ESL 390-121 and 0980 ESL 390-111

LED	Indicator	Condition
18 A	Yellow	Channel status
18 DIA A	Red	Periphery error
18 B	White	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

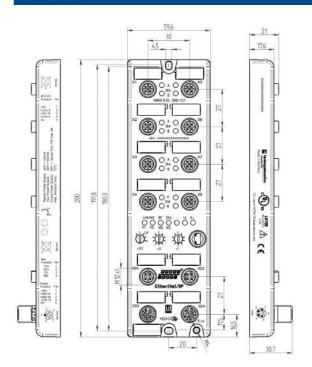




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Technical Drawing

0980 ESL 390-121





0980 ESL 390-111

