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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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! UL Y W W	NEW! UL Y W PROF!				
	EtherNet/IP	Ether Vet/IP				
	Ether CAT.	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.)	160 mA (+/-20% at 24 V DC)					
Input Channels						
Number of Channels	8					
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 PNP					
Sensor Type	P	NP				
Output Channels		0				
Number of Channels	M12 F poles A coded					
Connection Channel Type	M12, 5-poles, A-coded					
Channel Type Nominal Voltage	p-switching 24.V.D.C. via Haux (actuator power cumply)					
Nominal Voltage	24 V DC via Uaux (actuator power supply) max. 2 A					
Output Current per Channel Output Current per Module	max. 2 A max. 9 A					
Protective Circuit	Electronicaly: Overload protection, short-circuit protection					
Galvanically Isolated						
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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

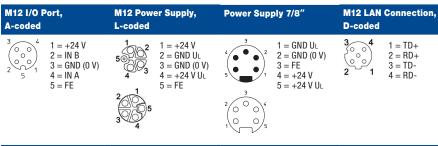


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Diagnostic Indication | 0980 ESL 393-121 and 0980 ESL 393-111

LED	Indicator	Condition
18 A	Yellow	Channel status
18 DIA A	Red	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

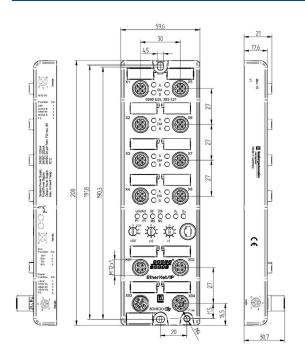




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Technical Drawing

0980 ESL 393-121





0980 ESL 393-111

