

















LioN-Power PROFINET – 16 Digital Inputs/Outputs (Universal), M12 LAN Connection, 4-Poles, D-Coded, M12 L-coded or 7/8” Power Supply Connection, 5-Poles







Product Description		
Type	0980 ESL 300-121	0980 ESL 300-111
	       	       
Description	LioN-P PROFINET device, 16 digital in-/output channels, channels can be used universally as inputs or outputs, M12 LAN connection, 4-poles, D-coded, M12 L-coded power supply, 5-poles	LioN-P PROFINET 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.	934878007	934881007
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 IO 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)	
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	Electronically: Overload protection, short-circuit protection	
Galvanically Isolated	Yes	

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Diagnostic Indication | 0980 ESL 300-121 and 0980 ESL 300-111

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
BF	Red Off	Bus error, no data exchange with I/O controller via PROFINET No error message
DIA	Red Red blinking Off	Common indicator for periphery errors Firmware update No error message
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

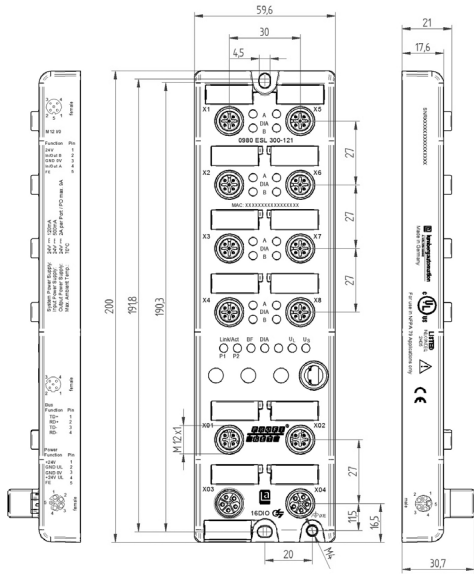
M12 I/O Port, A-coded	M12 Power Supply, L-coded	Power Supply 7/8"	M12 PROFINET/ EtherNet/IP, D-coded
 <ul style="list-style-type: none"> 1 = +24 V 2 = IN/OUT B 3 = GND (0 V) 4 = IN/OUT A 5 = FE 	 <ul style="list-style-type: none"> 1 = +24 V 2 = GND UL 3 = GND (0 V) 4 = +24 V UL 5 = FE 	 <ul style="list-style-type: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

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Technical Drawing

0980 ESL 300-121



0980 ESL 300-111

