

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
	NEW!  	NEW!  
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 $19\text{ V} \leq U_s \leq 30\text{ V}$ U_s Voltage $< 19\text{ V}$ or $U_s > 30\text{ V}$
UL	Green Red	Voltage $19\text{ V} \leq U_L \leq 30\text{ V}$ U_L Voltage $< 19\text{ V}$ or $U_L > 30\text{ V}$

Pin Assignment

M12 I/O Port, A-coded	M12 Power Supply, L-coded	Power Supply 7/8"	M12 PROFINET/ EtherNet/IP, D-coded
 1 = +24 V 2 = IN/OUT B 3 = GND (0 V) 4 = IN/OUT A 5 = FE	 1 = +24 V 2 = GND UL 3 = GND (0 V) 4 = +24 V UL 5 = FE 	 1 = GND UL 2 = GND (0 V) 3 = FE 4 = +24 V 5 = +24 V UL 	 1 = TD+ 2 = RD+ 3 = TD- 4 = RD-

Continued Next Page

Technical Drawing

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Top View Dimensions:

- Overall Width: 30
- Mounting Hole Spacing: 4.5
- Component Positions: X1, X2, X3, X4, X5, X6, X7, X8
- Central Label Area: M1000 EST. 300-111, MHC 0000000000000000
- Bottom Mounting Holes: LAMP, RF, DIA, UZ
- Bottom Component Labels: 1610D, 1610E

Side View Dimensions:

- Total Depth: 206
- Internal Depth 1: 198.3
- Internal Depth 2: 196.8
- Internal Depth 3: 71
- Internal Depth 4: 28.5
- Internal Depth 5: 16.5
- Internal Depth 6: 215

Labels and Markings:

- Top Left: M1000A-2, 1000000000000000
- Top Right: 21
- Left Side: 206, 198.3, 196.8, 71, 28.5, 16.5, 215
- Right Side: 21, 17.3, 1000000000000000
- Bottom Left: 20
- Bottom Center: 34
- Bottom Right: 26.2



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