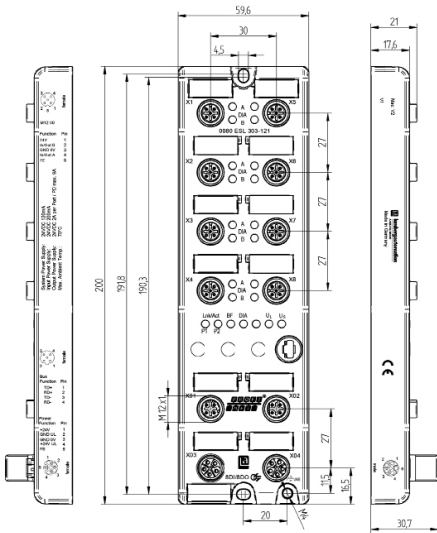





## LioN-Power Active I/O M12, M12 Power (L-coded), PROFINET, 8DI/8DO



|                            |   |
|----------------------------|---|
| <b>Type</b>                | 0980 ESL 303-121  |
| <b>Product Description</b> | LioN-P PROFINET device, 8 digital input channels and 8 digital output channels with galvanic isolation, M12 LAN connection, 4-poles, D-coded, M12 L-coded power supply, 5-poles |

| Diagnostic indication |                 |  |
|-----------------------|-----------------|--|
| LED                   | Indication      | Condition  |
| 1...8 A               | Yellow          | Channel status                                       |
| 1...8 DIA A           | Red             | Peripheral fault                                     |
| 1...8 B               | White           | Channel status                                       |
| 1...8 DIA B           | Red             | Peripheral fault                                     |
| P1 Lnk/Act            | Green           | Connection to an Ethernet subscriber                 |
|                       | Green blinking  | I/O device is in data exchange                       |
|                       | Off             | No connection to another subscriber                  |
| P2 Lnk/Act            | Green           | Connection to an Ethernet subscriber                 |
|                       | Yellow blinking | I/O device is in data exchange                       |
|                       | Off             | No connection to another subscriber                  |
| BF                    | Red             | Bus fault, no communication                          |
|                       | Off             | No fault present                                     |
| DIA                   | Red             | Collective display peripheral fault                  |
|                       | Red blinking    | Firmware update                                      |
|                       | Off             | No fault present                                     |
| U <sub>s</sub>        | Green           | Voltage 19V ≤ U <sub>s</sub> ≤ 30V                   |
|                       | Red             | U <sub>s</sub> Voltage < 19V or U <sub>s</sub> > 30V |
| U <sub>L</sub>        | Green           | Voltage 19V ≤ U <sub>L</sub> ≤ 30V                   |
|                       | Red             | U <sub>L</sub> Voltage < 19V or U <sub>L</sub> > 30V |

| Bit assignment          |    |    |    |    |    |    |    |    |
|-------------------------|----|----|----|----|----|----|----|----|
| Bit                     | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |
| <b>Input Data: 8DI</b>  |    |    |    |    |    |    |    |    |
| Byte 0                  | 4B | 4A | 3B | 3A | 2B | 2A | 1B | 1A |
| <b>Output Data: 8DO</b> |    |    |    |    |    |    |    |    |
| Byte 1                  | 8B | 8A | 7B | 7A | 6B | 6A | 5B | 5A |

| Pin assignment   |  |  |
|--|--|--|
| <b>M12 I/O port, A-coded</b><br> <ul style="list-style-type: none"> <li>1 = +24V</li> <li>2 = In/Out B</li> <li>3 = GND 0V</li> <li>4 = In/Out A</li> <li>5 = FE</li> </ul> | <b>M12 Power connector, L-coded</b><br> <ul style="list-style-type: none"> <li>1 = +24V</li> <li>2 = GND UL</li> <li>3 = GND 0V</li> <li>4 = +24V UL</li> <li>5 = FE</li> </ul> | <b>M12 PROFINET, D-coded</b><br> <ul style="list-style-type: none"> <li>1 = TD+</li> <li>2 = RD+</li> <li>3 = TD-</li> <li>4 = RD-</li> </ul> |

|                    |                     |
|--------------------|---------------------|
| <b>Part number</b> | <b>Order number</b> |
| 0980 ESL 303-121   | 934878003           |

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## LioN-Power Active I/O M12, M12 Power (L-coded), PROFINET, 8DI/8DO

| Technical Data               |   |
|------------------------------|---|
| Environmental Temperature    | -20° C to +70° C (Operation)  |
| Housing Material             | Metal Zinc Die-cast   |
| Contact Bearer               | PA  |
| Contact                      | M12 A, D-coded CuSn, Gold-plated<br>M12 L-coded CuNi, Gold-plated                               |
| O-ring                       | FKM   |
| Mechanical Data              |   |
| Weight                       | 500 g   |
| Protection Class (IEC 60529) | IP65, IP67, IP69K (only if mounted and locked in combination with Hirschmann/Lumberg connector) |
| Module Supply                |   |
| Rated Voltage                | 24V DC  |
| Voltage Range                | 19 to 30V DC  |
| Nominal Current              | 16 A  |
| Connection Type              | M12 Power, 5-poles, L-coded   |
| Number                       | 2   |
| Bus-System                   |   |
| Network                      | PROFINET  |
| Transmission Rate            | 10/100 Mbit/s   |
| Connection Type              | M12 LAN connection, 4 poles, D-coded  |
| Number                       | 2   |
| Outputs                      |   |
| Number of Digital Channels   | 8   |
| Actoric Current              | 2 A per channel   |
| Actoric Current (max.)       | 9 A   |
| Short-circuit Proof          | yes   |
| Channel Type N.O.            | p-switching   |
| Status Indicator             | LED white or yellow per channel   |
| Diagnostic Indicator         | LED red per port  |
| Inputs                       |   |
| Number of Digital Channels   | 8   |
| Type                         | Type 3 acc. IEC 61131-2   |
| Sensor Type                  | PNP   |
| Status Indicator             | LED white or yellow per channel   |
| Diagnostic Indicator         | LED red per port  |
| Sensor Current Supply        | 200 mA per port   |

The application of these products in harsh environments should always be checked before use.

Specifications subject to alteration.