





















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

| Product Description | | |
|--|---|---|
| Type | 0980 ESL 391-121 | 0980 ESL 391-111 |
| |           |           |
| Description | LioN-P Multi-protocol module, PROFINET, EtherNet/IP or EtherCAT device, 16 digital input channels, 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 input channels, M12 LAN connection, 4-poles, D-coded, 7/8" power supply, 5-poles |
| Order No. | 934879001 | 934882001 |
| 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 | 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 | 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 | |

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Bit Assignment







| Bit | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|----------------|----|----|----|----|----|----|----|----|
| M12 Input 16DI | | | | | | | | |
| Byte 0 | 4B | 4A | 3B | 3A | 2B | 2A | 1B | 1A |
| Byte 1 | 8B | 8A | 7B | 7A | 6B | 6A | 5B | 5A |

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Diagnostic Indication | 0980 ESL 391-121 and 0980 ESL 391-111

| 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 |
| 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 | Bootling Error was detected |
| | Off | No error |
| Us | Green | Voltage 19 V <= Us <= 30 V |
| | Red | Us Voltage < 19 V or Us > 30 V |

Pin Assignment

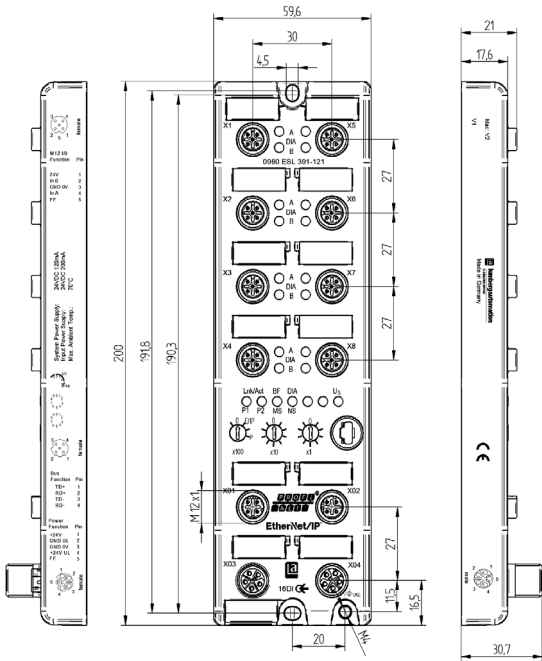
| M12 I/O Port, A-coded | M12 Power Supply, L-coded | Power Supply 7/8" | M12 LAN Connection, D-coded |
|--|--|--|--|
|  <ul style="list-style-type: none"> 1 = +24 V 2 = IN B 3 = GND (0 V) 4 = IN A 5 = FE |  <ul style="list-style-type: none"> 1 = +24 V 2 = GND UL 3 = GND (0 V) 4 = +24 V UL 5 = FE |  <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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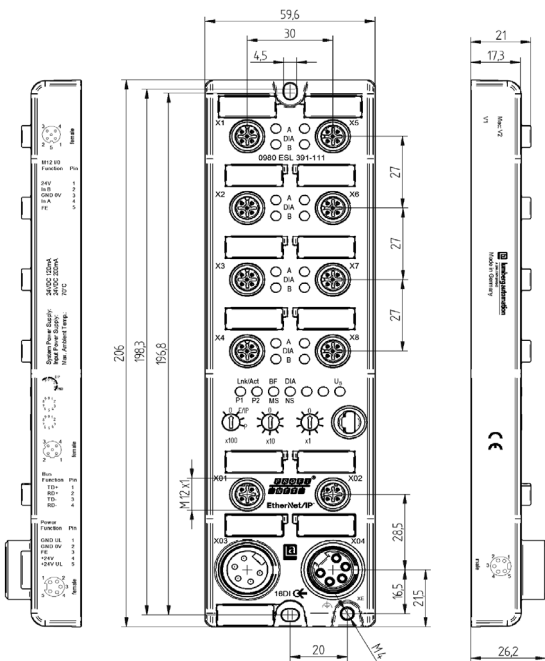
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Technical Drawing

0980 ESL 391-121



0980 ESL 391-111



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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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