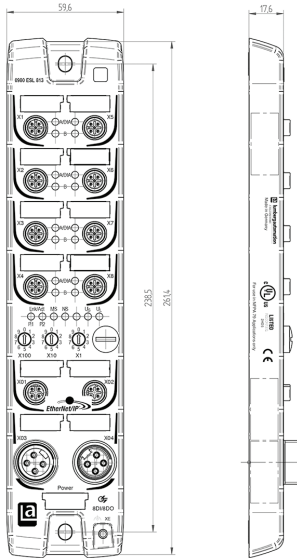


## LioN-R EtherNet/IP I/O Rugged Modules with 16 Digital Outputs



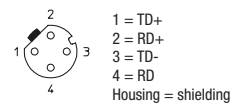
|                              |  |  |
|------------------------------|--|--|
| <b>Type</b>                  | 0980 ESL 812-EIP 16DO-M12-R  |  |
| <b>Product Description</b>   | LioN-R Digital output module, 16 digital output channels with galvanic isolation, EtherNet/IP devices, rotary address switches for setting addresses, M12 LAN connector, D-coded |  |
| <b>Order Number</b>          | 934 691-002  |  |
| <b>Diagnostic indication</b> |  |  |
| <b>LED</b>                   | <b>Indication</b>  | <b>Condition</b>   |
| 1...8 A                      | White  | Channel status   |
| 1...8 DIA A                  | Red  | Periphery error  |
| 1... 8 B                     | White  | Channel status   |
| 1... 8 DIA B                 | Red  | Periphery error  |
| <b>P1 Lnk/Act</b>            | Green<br>Yellow flashing<br>Off  | Connection to an Ethernet device<br>I/O device exchanging data<br>No connection to any other device  |
| <b>P2 Lnk/Act</b>            | Green<br>Green flashing<br>Off   | Connection to an Ethernet device<br>I/O device exchanging data<br>No connection to any other devices   |
| <b>MS (Module status)</b>    | Green<br>Green flashing<br>Red/Green flashing<br>Red flashing<br>Off   | Device is ready for operating<br>Wrong configuration<br>Self test is running<br>Firmware update<br>Device is switches off  |
| <b>NS (Network status)</b>   | Green flashing<br>Green<br>Red flashing<br>Red<br>Red/Green flashing<br>Off  | IP address is available<br>Connection to master is available<br>At least one connection has timed out<br>IP address is already being used by another device<br>Self test is running<br>Device is switched off/Device has no IP address |
| <b>US</b>                    | Green<br>Red   | Voltage 18 V<= US<=30V<br>Voltage US<18V or US>30V   |
| <b>UL</b>                    | Green<br>Red   | Voltage 18 V<= US<=30V<br>Voltage US<18V or US>30V   |

Technical modifications reserved.

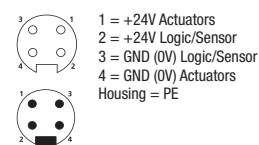
| Bit assignment        |    |    |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|----|----|
| Bit                   | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |
| <b>M12 Input 16DO</b> |    |    |    |    |    |    |    |    |
| <b>Byte 0</b>         | 4B | 4A | 3B | 3A | 2B | 2A | 1B | 1A |
| <b>Byte 1</b>         | 8B | 8A | 7B | 7A | 6B | 6A | 5B | 5A |

### Pin assignment

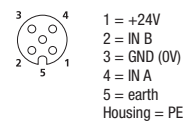
#### LAN connection M12, D-coded



#### Power supply 7/8"




#### Input/Output M12



|                             |                     |
|-----------------------------|---------------------|
| <b>Part number</b>          | <b>Order number</b> |
| 0980 ESL 812-EIP 16DO-M12-R | 934 691-002         |



## LioN-R EtherNet/IP I/O Rugged Modules with 16 Digital Outputs

| Product Description   |                             |
|---|-----------------------------|
| Type  | 0980 ESL 812-EIP 16DO-M12-R |
|  |                             |
| Technical Data  |                             |
| Protection Class  | IP67                        |
| Operating Temperature Range   | -10° C to +60° C            |
| Weight  | 605 g                       |
| Housing Material  | Metal (diecast zinc)        |
| Bus System  |                             |
| Transmission Rate   | 10/100 Mbs                  |
| Address Range   | 0 to 255                    |
| Default Address   | 0                           |
| Actuator Power Supply UL  |                             |
| Rated Output Current  | 24V DC                      |
| Voltage Range   | 19 to 30V DC                |
| Reverse Polarity Protection   | Yes/antiparallel diode      |
| Indicator   | LED white                   |
| Outputs   |                             |
| Rated Output Current  | 1.6 A per channel           |
| Short Circuit-proof   | Yes                         |
| Max. Current Carrying Capacity  | 9 A per module              |
| Overload-proof  | Yes                         |
| Number of Digital Channels  | 16                          |
| Channel Type N.O.   | p-switching                 |
| Status Indicator  | LED white per channel       |
| Diagnostic Indicator  | LED red per port            |
| Galvanic Isolation from Electronics   | Yes                         |
| Included in Delivery  |                             |
| M12 Dust Covers   | 4 pieces                    |
| Attachable Labels   | 10 pieces                   |

The use of these products in aggressive media should be verified in each case. Technical modifications reserved.  
 Certifications have been applied for UL and CSA.