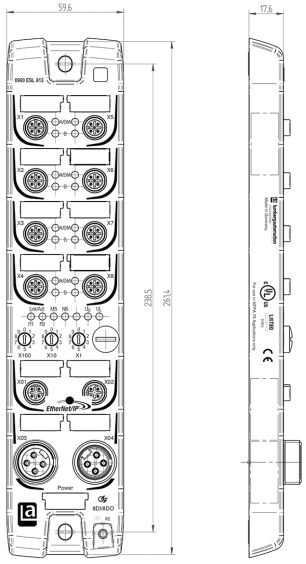
lumbergautomation
A BELDEN BRAND

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



Type	0980 ESL 812-EIP 16DO-M12-R	
Product Description	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	
Order Number	934 691-002	
Diagnostic indiction		
LED	**Indication**	**Condition**
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
P1 Lnk/Act	Green Yellow flashing Off	Connection to an Ethernet device I/O device exchanging data No connection to any other device
P2 Lnk/Act	Green Green flashing Off	Connection to an Ethernet device I/O device exchanging data No connection to any other devices
MS (Module status)	Green Green flashing Red/Green flashing Red flashing Off	Device is ready for operating Wrong configuration Self test is running Firmware update Device is switches off
NS (Network status)	Green flashing Green Red flashing Red Red/Green flashing 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
US	Green Red	Voltage 18 V<= US<=30V Voltage US<18V or US>30V
UL	Green Red	Voltage 18 V<= US<=30V Voltage US<18V or US>30V

Technical modifications reserved.

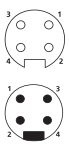
Bit assignment								
Bit	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**0**
	M12 Input 16DO							
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Pin assignment

LAN connection M12, D-coded

1 = TD+
2 = RD+
3 = TD-
4 = RD
Housing = shielding

Power supply 7/8"



1 = +24V Actuators
2 = +24V Logic/Sensor
3 = GND (0V) Logic/Sensor
4 = GND (0V) Actuators
Housing = PE

Input/Output M12

1 = +24V
2 = IN B
3 = GND (0V)
4 = IN A
5 = earth
Housing = PE

Part number	Order number
0980 ESL 812-EIP 16DO-M12-R	**934 691-002**

lumbergautomation
A BELDEN BRAND

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.