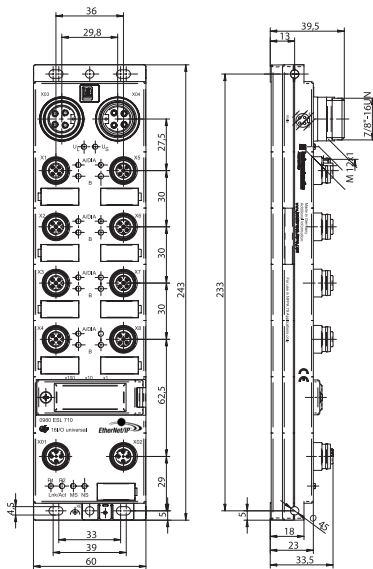


LioN-M EtherNet/IP I/O Modules with 16 Digital Inputs and 16 Digital Outputs



Type	0980 ESL 710
Product Description	LioN-M EtherNet/IP Device with 16 digital I/O channels, channels can be used universally as inputs or outputs, M12 socket, rotary address switches for addressing, M12 LAN-Ports, D-coded, 7/8" power supply.

Diagnostic indication		
LED	Indication	Condition
1...8 A	Yellow	Channel status 1
1...8 DIA A	Red	Periphery fault
1...8 B	Yellow	Channel status 2
1...8 DIA B	Red	Periphery fault
US	Green Off	Sensor power supply applied Sensor power supply missing
UL	Green Off	Actuator power supply applied Actuator power supply missing
P1 Lnk/Act	Green Yellow flashing	Connected to an Ethernet device I/O device exchanging data
P2 Lnk/Act	Green Green flashing	Connected to an Ethernet device I/O device exchanging data
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 off
NS (Network status)	Green Green flashing Red Red flashing Off	Connection to master exists IP address exists, but no connection to the master IP address is used by a different device Connection has timed out Device is off

Bit assignment								
DIA	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A
M12 Output								
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	Power supply 7/8"	Input/Output M12
<p>1 = TD+ 2 = RD+ 3 = TD- 4 = RD Housing = shielding</p>	<p>1 = +24V Actuators 2 = +24V System/Sensors 3 = GND (0V) System/Sensors 4 = GND (0V) Actuators Housing = FE</p>	<p>1 = +24V 2 = IN/OUT B 3 = GND (0V) 4 = IN/OUT A 5 = earth Housing = FE</p>

Part number	Order number
0980 ESL 710	0980 ESL 710



LioN-M EtherNet/IP I/O Modules with 16 Digital Inputs and 16 Digital Outputs

Environmental	
Degree of protection	IP 67
Operating temperature range	-10° C (+14°F) to +60° C (+140°F)
Mechanical	
Weight	380 g
Housing material	PBT
Bus system	EtherNet/IP
Vendor ID	21
Device ID	710
EDS-File	EDS-v3.9 - LumbergAutomation-0980ESL710-20110420.eds (or later)
Transmission rate	10/100 Mbps
Address range	0-255
Rotary address switches	0-255
Default address	1
System/Sensors power supply	
Nominal voltage	24V DC
Voltage range	11–30V DC
Power consumption	typ. 90 mA
Reverse polarity protection	yes
Input power supply	
Voltage range	19–30V DC
Sensor current	200 mA per port (at Tamb 30° C)
Short-circuit proof	yes
Indication	LED green
Inputs	
Rated input voltage	24V DC
Channel type N.O.	p-switching
Number of digital channels	max. 16
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per socket
Output power supply	
Rated voltage	24V DC
Voltage range	19–30V DC
Reverse polarity protection	yes/antiparallel diode
Indication	LED green
Outputs	
Rated output current	1.6 A per channel
Short-circuit proof	yes
Max. output current	9 A (12 A*) per module
*Test proven and approved under the following conditions: · looped through System/Sensor power supply max. 2.5 A · Power supply cable STL 204 (5x1.00 mm²) · Operating temperature range max. 40° C	
Overload-proof	
Number of digital channels	max. 16
Channel type N.O.	p-switching
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per socket
Included in delivery/accessories	
Dust covers M12	4 pieces
Attachable labels	10 pieces

The application of these products in harsh environments should always be checked before use.
 Specifications subject to alteration.

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