



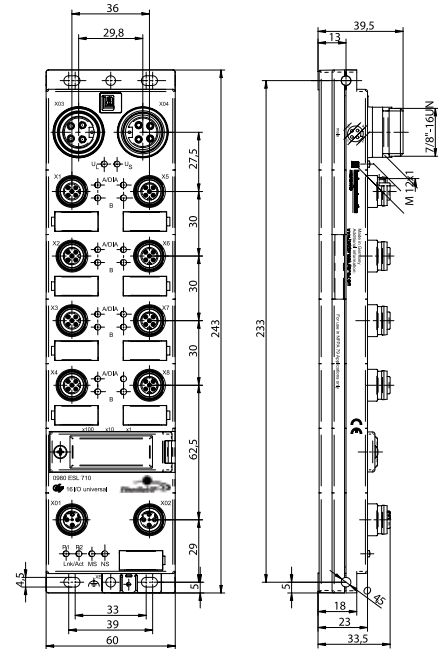
0980 ESL 710



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

16 IN / 16 OUT (universal)

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.



Bit Assignment

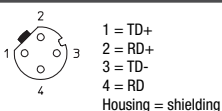
Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A
M12 Output								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Diagnostic Indication

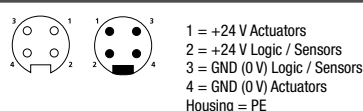
LED	Indication	Condition
1...8 A	yellow	channel status 1
1...8 DIA A	red	periphery fault
1...8 B	yellow	channel status 2
1...8 DIA B	red	periphery fault
Us	green off	sensor power supply applied sensor power supply missing
Ul	green off	actuator power supply applied actuator power supply missing
P1 Lnk/Act	green yellow flashing	connected to an Ethernet device I/O device exchanging data
P2 Lnk/Act	green yellow 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

Pin Assignment

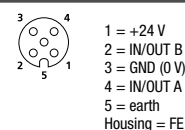
LAN connection M12, D-Coded



Power supply 7/8"



Input/Output M12





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Technical Data

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

Vendor ID	Ethernet/IP
Device ID	21
EDS-File	710
Download	EDS-v3.9 - LumbergAutomation-0980ESL710-20110420.eds (or later)
Transmission rate	www.beldensolutions.com
Address range	10/100 Mbps
Rotary address switches	0-255
Default address	0-255
	1

System/Sensors power supply

Rated voltage	System power supply
Voltage range	24 V DC
Power consumption	11–30 V DC
Reverse polarity protection	typ. 90 mA
	yes

Input power supply

Voltage range	Us
Sensor current	19–30 V DC
Short-circuit proof	200 mA (at Tamb 30°C)
Indication	yes
	LED green

Inputs

Rated input voltage	Type 3 acc. to IEC 61131-3
Channel type N.O.	24 V DC
Number of digital channels	p-switching
Channel status indicator	max. 16
Diagnostic indication	LED yellow per channel
	LED red per socket

Output power supply

Rated voltage	Uo
Voltage range	24 V DC
Reverse polarity protection	19–30 V DC
Indication	yes/antiparallel diode
	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/ Sensorpower 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	yes
Channel type N.O.	max. 16
Channel status indicator	p-switching
Diagnostic indication	LED yellow per channel
	LED red per socket

Included in delivery/accessories

Dust covers M12	2 pieces
Attachable labels	10 pieces

Part Number

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