

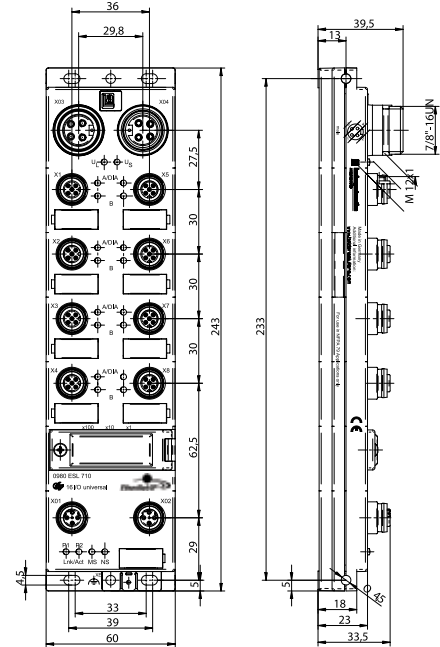


0980 ESL 710



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.

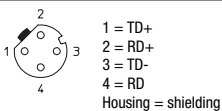


Bit Assignment

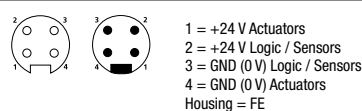
Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A
M12 Output								
Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Pin Assignment

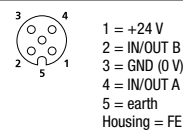
LAN connection M12, D-Coded



Power supply 7/8"



Input/Output M12



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



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

0980 ESL 710

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

System/Sensors power supply

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

Input power supply

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

Inputs

Rated input voltage Type 3 acc. to IEC 61131-3
 24 V 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 Uo
 24 V DC
 Voltage range 19–30 V 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/ 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
 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 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.