



lumbergautomation

A **BELDEN** BRAND



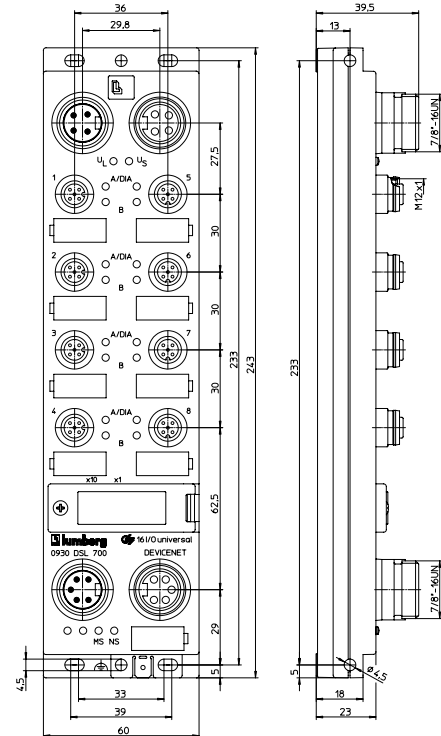
0930 DSL 700



DeviceNet I/O Modules with 16-Digital Inputs & 16-Digital Outputs

16 IN / 16 OUT (Universal)

DeviceNet device with 16 digital I/O channels, channels can be used universally as inputs or outputs, M12 socket, rotary switches for addressing, 7/8" bus connection, 7/8" power supply.



Bit Assignment

Bit	7	6	5	4	3	2	1	0
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M12 Input

Byte 0	4B	4A	3B	3A	2B	2A	1B	1A
Byte 1	8B	8A	7B	7A	6B	6A	5B	5A

Diagnostic: Input

Byte 2	S8	S7	S6	S5	S4	S3	S2	S1
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S1...8: Socket Status 1...8

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/B	yellow	channel status
1...8 A/DIA	red	periphery fault
Us	green	sensor power supply
UL	green	actuator power supply
MS	green	device is ready for operating
(Module status)	green flashing	wrong configuration
	red	unrecoverable fault
	red flashing	recoverable fault
	red/green flashing	self test is running
NS	green	online, communication with PLC
(Network status)	green flashing	online, no communication with PLC
	red flashing	time-out state of one or more I/O connections
	red	failed communication device, BUS-OFF Status, duplicate MAC-ID

Pin Assignment

Bus connection 7/8"	Power supply 7/8"	Input/Output M12	
<p>1 = Drain 2 = 24 V¹ 3 = GND (0 V)¹ 4 = CAN_H 5 = CAN_L earth</p>	<p>1 = GND (0 V) 2 = Earth 3 = +24 V 5 = +24 V</p>	<p>1 = +24 V 2 = IN/OUT B 3 = GND (0 V) 4 = IN/OUT A 5 = earth</p>	<p>1 = System: galvanically separated to sensors/actuators 2 = Actuators 3 = Sensors</p>



DeviceNet I/O Modules with 16-Digital Inputs & 16-Digital Outputs

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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

Transmission rate	max. 500 kBaud
Address range	0–63 dec
Rotary address switches	0–63 dec
Default address	63 dec

System power supply

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

Input power supply

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

Inputs

Rated input voltage	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	24 V DC
Voltage range	19–30 V DC
Potential separation	present
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 (5 x 1.00 mm²)
- Operating temperature range max. 40°C

Overload-proof	yes
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

NOTE: EDS-files can be downloaded from our website
http://www.beldensolutions.com/en/Service/Downloadcenter/Software_Lumberg/index.phtml

Part Number

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