



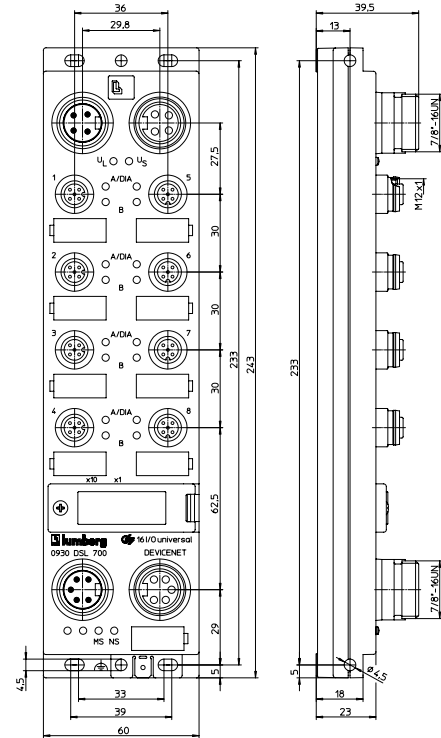
0930 DSL 700



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
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Byte 1	8B	8A	7B	7A	6B	6A	5B	5A
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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
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Byte 1	8B	8A	7B	7A	6B	6A	5B	5A
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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 (Module status)	green	device is ready for operating
	green flashing	wrong configuration
	red	unrecoverable fault
	red flashing	recoverable fault
	red/green flashing	self test is running
NS (Network status)	green	online, communication with PLC
	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 3 = +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>



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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

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

Inputs

Type 3 acc. to IEC 61131-2
 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

UL
 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.