lumbergautomation
A BELDEN BRAND

DeviceNet

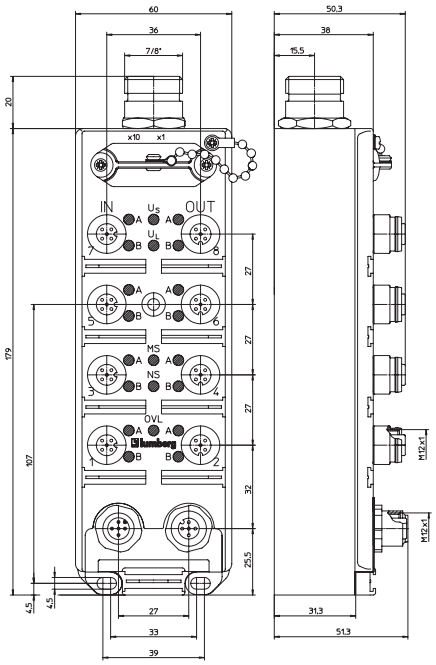
DeviceNet I/O Modules with 8-Digital Inputs and 8-Digital Outputs

0930 DSL 113

8 IN / 8 OUT

DeviceNet device with 8 digital inputs to connect standard sensors and 8 digital outputs (0.5 A) to connect standard actuators, combined M12 socket, rotary switches for addressing, M12 bus connection, 7/8" actuator supply.

– Replaced 0930 DSL 102 –



Bit Assignment

Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	7B	5B	3B	1B	7A	5A	3A	1A
Diagnostic: Input								
Byte 1	OVL	-	-	-	-	-	ASC	UVA
M12 Output								
Byte 0	8B	6B	4B	2B	8A	6A	4A	2A

OVL: Overload status
ASC: Actuator short-circuit
UVA: Undervoltage actuator

Diagnostic Indication

LED	Indication	Condition
1...8 A/B	yellow	channel status
2, 4, 6, 8 A/B	red	actuator short-circuit / actuator overload
Us	green	actuator power supply
UL	green	system power supply
OVL	red	sensor short-circuit / sensor overload
MS	green	device is ready for operating
(Module status)	green flashing	incorrect or incomplete 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 M12

1 = Drain
2 = 24 V [1]
3 = GND (0 V) [1]
4 = CAN_H
5 = CAN_L

Actuator supply 7/8"

1 = earth
2 = +24 V
3 = GND (0 V)

Input M12

1 = +24 V
2 = IN B
3 = GND (0 V)
4 = IN A
5 = earth

Output M12

1 = n.c.
2 = OUT B
3 = GND (0 V)
4 = OUT A
5 = earth

1 = system/sensors

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Technical Data

Environmental	
Degree of protection	IP 67
Operating temperature range	-0°C (+32°F) to +60°C (+140°F)
Mechanical	
Weight	570 g
Housing material	PUR
Bus system	**DeviceNet**
Transmission rate	max. 500 kBaud
Autobaud	yes
Address range	0–63 dec
Rotary address switches	0–63 dec
Default address	63 dec
Electronics power supply	**UL**
Rated voltage	24 V DC
Voltage range	11–30 V DC
Power consumption	max. 80 mA
Reverse polarity protection	yes
Indication	LED green
Input power supply	
Voltage range	min. (UL - 1.5 V)
Total current of all sensors	max. 800 mA
Short circuit-proof	yes
Indication	LED green
Inputs	**Type 2 acc. to IEC 61131-2**
Rated input voltage	24 V DC
Signal state “1”	11–30 V
Signal state “0”	-3–5 V
Input current at 24 V	10 mA
Channel type N.O.	p-switching
Number of digital channels	8
Channel status indicator	LED yellow per channel

Output power supply	**Us**
Rated voltage	24 V DC
Voltage range	19–30 V DC
Potential separation	present
Reverse polarity protection	yes/antiparallel diode
Indication	LED green
Outputs	**Type 0.5 A acc. to IEC 61131-2**
Rated output current	0.7 A per channel
Short circuit-proof	yes
Max. output current	5.6 A
Overload-proof	yes
Number of digital channels	8
Channel type N.O.	p-switching
Channel status indicator	LED yellow per channel
Diagnostic indication	LED red per channel
Included in delivery/accessories	
Dust covers M12	2 pieces
Attachable labels	10 pieces

Communication modes
Polled I/O message connection
Change of state/ cyclic message connection
Explicit message connection

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.

Mouser Electronics

Authorized Distributor

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