



lumbergautomation

A **BELDEN** BRAND



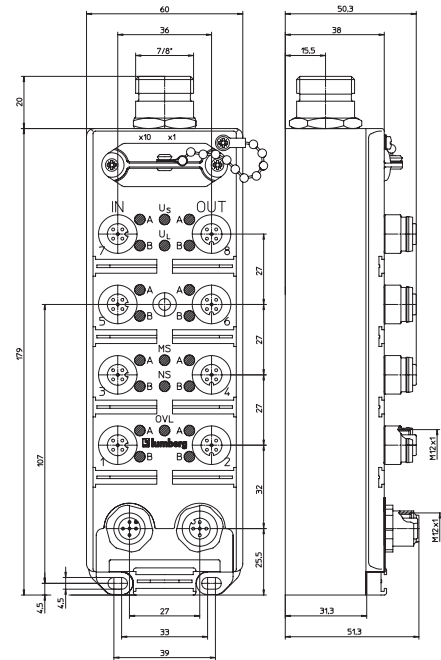
0930 DSL 113



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

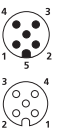
Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	7B	5B	3B	1B	7A	5A	3A	1A
Diagnostic: Input								
Byte 1	OVL	-	-	-	-	-	ASC	UVA
M12 Output								
Byte 0	8B	6B	4B	2B	8A	6A	4A	2A

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	Actuator supply 7/8"	Input M12	Output M12
 1 = Drain 2 = 24 V¹ 3 = GND (0 V)¹ 4 = CAN_H 5 = CAN_L	 1 = earth 2 = +24 V 3 = GND (0 V)	 1 = +24 V 2 = IN B 3 = GND (0 V) 4 = IN A 5 = earth	 1 = n.c. 2 = OUT B 3 = GND (0 V) 4 = OUT A 5 = earth 1 = system/sensors



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

0930 DSL 113

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

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

Electronics power supply

Rated voltage	UL 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

Rated input voltage	Type 2 acc. to IEC 61131-2 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

Rated voltage	Us 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	Type 0.5 A acc. to IEC 61131-2 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.