DeviceNet I/O Modules with 8-Digital Inputs and 8-Digital Outputs
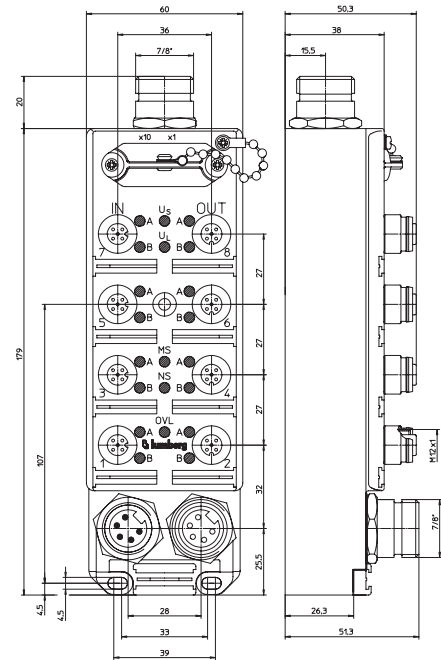
0930 DSL 314

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, 7/8" bus connection, 7/8" actuator supply.

– Replaced 0930 DSL 302 and 0930 DSL 305 –

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
U$_S$	green	actuator power supply
U$_L$	green	system power supply
OVL	red	sensor short-circuit / sensor overload
MS (Module status)	green	device is ready for operating
	green flashing	incorrect or incomplete 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”	Actuator supply 7/8”	Input M12	Output M12	
1 = Drain 2 = 24 V [1] 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

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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 — **U$_L$**
Rated voltage	24 V DC
Voltage range	11–30 V DC
Power consumption	max. 800 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	
0930 DSL 314	UL

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