lumbergautomation
A **BELDEN** BRAND

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

DeviceNet

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 –
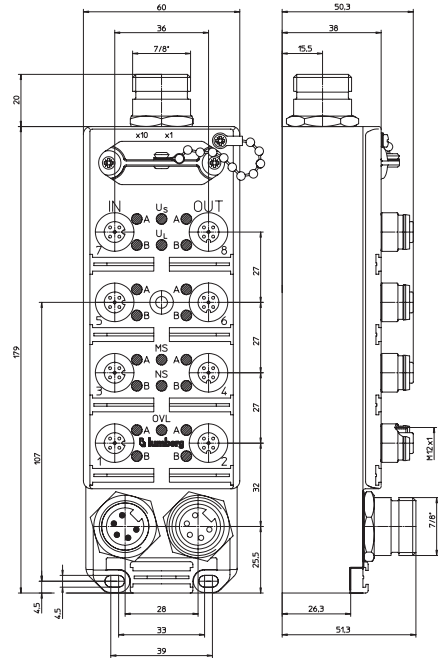
Bit Assignment

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

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

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