



# lumbergautomation

A **BELDEN** BRAND



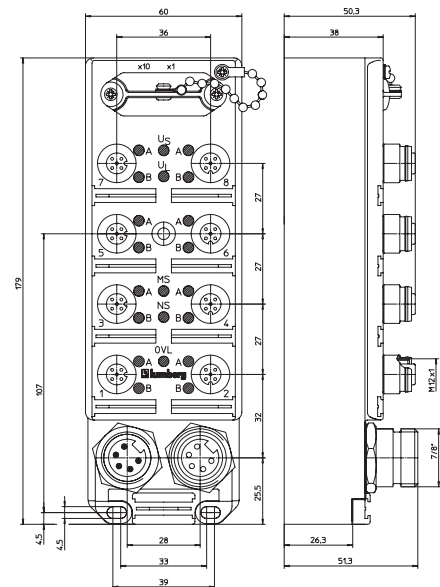
0930 DSL 312



## 16 IN (p)

DeviceNet device with 16 digital inputs (p-switching) to connect standard sensors, M12 socket, rotary switches for addressing, 7/8" bus connection.

– Replaced 0930 DSL 301 and 0930 DSL 301 –



## Bit Assignment

Bit	7	6	5	4	3	2	1	0
<b>M12 Input</b>								
Byte 0	8A	7A	6A	5A	4A	3A	2A	1A
Byte 1	8B	7B	6B	5B	4B	3B	2B	1B
<b>Diagnostic: Input</b>								
Byte 2	OVL	-	-	-	-	-	-	-

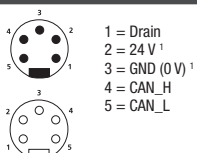
OVL: Overload status

## Diagnostic Indication

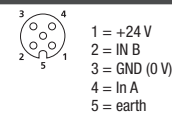
LED	Indication	Condition
1...8 A/B	yellow	channel status
Us	green	sensor power supply
Ul	green	system power supply
OVL	red	sensor short-circuit / sensor overload
MS	green	device is ready for operating
(Module status)	green flashing	incorrect or incomplete configuration
	red	unrecoverable fault
	red flashing	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 7/8"



Input M12



1 = system/sensors



# Be Certain with Belden

## DeviceNet I/O Modules with 16-Digital Inputs

0930 DSL 312

### 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	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	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.	(USystem - 1.5 V)
Sensor current	max. 800 mA
Short circuit-proof	yes
Indication	LED green

#### Inputs

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	16
Channel status indicator	LED yellow 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](http://www.beldensolutions.com/en/Service/Downloadcenter/Software_Lumberg/index.phtml)

### Part Number

0930 DSL 312



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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