



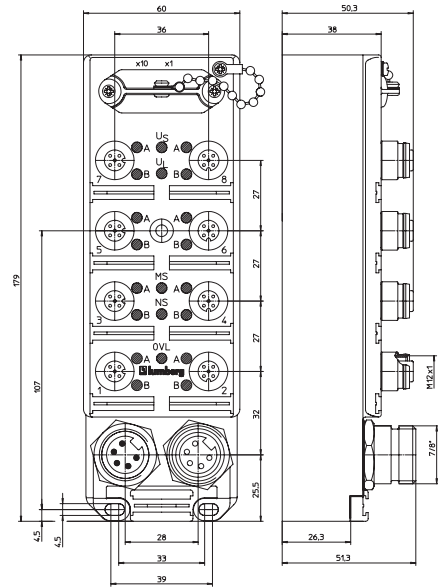
0930 DSL 313



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

### 16 IN (n)

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



### Bit Assignment

Bit	7	6	5	4	3	2	1	0
<b>M12 Input</b>								
<b>Byte 0</b>	8A	7A	6A	5A	4A	3A	2A	1A
<b>Byte 1</b>	8B	7B	6B	5B	4B	3B	2B	1B
<b>Diagnostic: Input</b>								
<b>Byte 2</b>	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	
<ul style="list-style-type: none"> <li>1 = Drain</li> <li>2 = 24 V<sup>1</sup></li> <li>3 = GND (0 V)<sup>1</sup></li> <li>4 = CAN_H</li> <li>5 = CAN_L</li> </ul>	<ul style="list-style-type: none"> <li>1 = +24 V</li> <li>2 = IN B</li> <li>3 = GND (0 V)</li> <li>4 = In A</li> <li>5 = earth</li> </ul>	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

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. (U<sub>System</sub> - 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" < (U<sub>s</sub> - 11 V)  
Signal state "0" > (U<sub>s</sub> - 5 V)  
Input current at 24 V -10 mA  
Channel type N.O. n-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

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The application of these products in harsh environments should always be checked before use.  
Specifications subject to alteration.