



0930 DSL 113

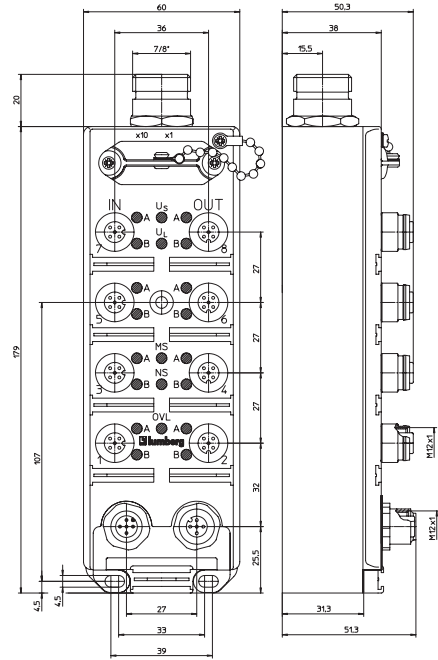


DeviceNet I/O Modules with 8-Digital Inputs and 8-Digital Outputs

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
NS	red/green flashing	self test is running
	green	online, communication with PLC
	green flashing	online, no communication with PLC
	red flashing	time-out state of one or more I/O connections
(Network status)	red	failed communication device, BUS-OFF Status, duplicate MAC-ID

Pin Assignment

Bus connection M12	Actuator supply 7/8"	Input M12	Output M12
<ul style="list-style-type: none"> 1 = Drain 2 = 24 V¹ 3 = GND (0 V)¹ 4 = CAN_H 5 = CAN_L 	<ul style="list-style-type: none"> 1 = earth 2 = +24 V 3 = GND (0 V) 	<ul style="list-style-type: none"> 1 = +24 V 2 = IN B 3 = GND (0 V) 4 = IN A 5 = earth 	<ul style="list-style-type: none"> 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

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

UL
Rated voltage 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

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

Rated voltage
Voltage range
Potential separation
Reverse polarity protection
Indication

Outputs

Rated output current
Short circuit-proof
Max. output current
Overload-proof
Number of digital channels
Channel type N.O.
Channel status indicator
Diagnostic indication

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

Us

Rated voltage 24 V DC
Voltage range 19–30 V DC
Potential separation present
Reverse polarity protection yes/antiparallel diode
Indication LED green

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

Part Number

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