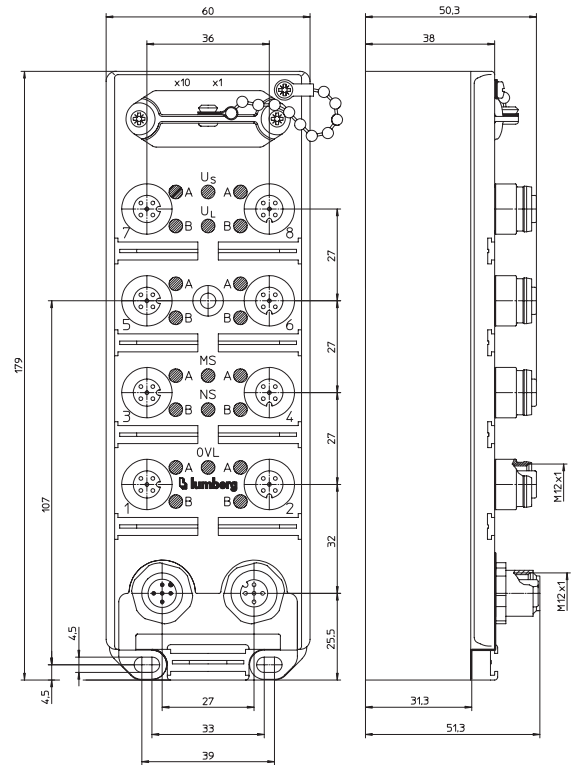


0930 DSL 109
16 In (NPN)

DeviceNet modules with 16 digital inputs (NPN) to connect standard sensors with female Micro (M12) sensor connection and Micro (M12) bus connections.

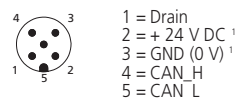


Bit Assignment								
Bit	7	6	5	4	3	2	1	0
M12 Input								
Byte 0	8A	7A	6A	5A	4A	3A	2A	1A
Byte 1	8B	7B	6B	5A	4B	3B	2B	1B
Diagnostic Input								
Byte 2	OVL	res.	res.	res.	res.	res.	res.	res.

OVL: Overload status

Diagnostic Indication		
LED	Indication	Condition
1...8 A/B	yellow	channel active
U _s	green	sensor supply active
U _i	green	module electronic supply active
OVL	red	sensor short circuit / sensor overload
MS (module status)	green	module ready
	red flashing	error (not critical)
	red	error (critical)
NS (network status)	green	online, connected with master
	green flashing	online, no connection
	red flashing	time-out status for the last I/O connection
	red	Bus off status, redundant Mac ID

Pin Assignment

Bus Connection M12


- 1 = Drain
- 2 = + 24 V DC ¹
- 3 = GND (0 V) ¹
- 4 = CAN_H
- 5 = CAN_L

Input M12


- 1 = + 24 V DC
- 2 = IN B
- 3 = 0 V
- 4 = IN A
- 5 = earth

¹ = System/Sensors

Technical data	
Degree of protection	IP 67
Operating temperature	0°C(+32°F) /+60°C(+140°F)
Weight	570 g
Bus system	
Supported transmission rates	125 / 250 / 500 kBaud
Auto baud	yes
Address range	0-63 dec
Rotary address switches	0-63 dec
Default address	63 dec
System power supply (U_s)	
Nominal voltage	24 V DC
Voltage range	11 V - 30 V DC
Current consumption	max. 80 mA
Reverse polarity protection	yes
Operating indicator (UL)	LED green
Input power supply (U_s)	
Nominal voltage	MAX (UL - 1.5 V)
Total current of all sensors	max. 800 mA
Short circuit protection	yes
Sensor short circuit indicator (OVL)	LED red
Sensor power supply indicator (Us)	LED green
Inputs	
Nominal input voltage	24 V DC
Input circuit N.O.	NPN
Number of digital channels	16
Channel status indicator	LED yellow
Communication modes	
Explicit message connection	
Polled I/O message connection	
Change of state/cyclic message connection	

Part Number	I/O
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0930 DSL 109 16 Inputs (NPN)

