

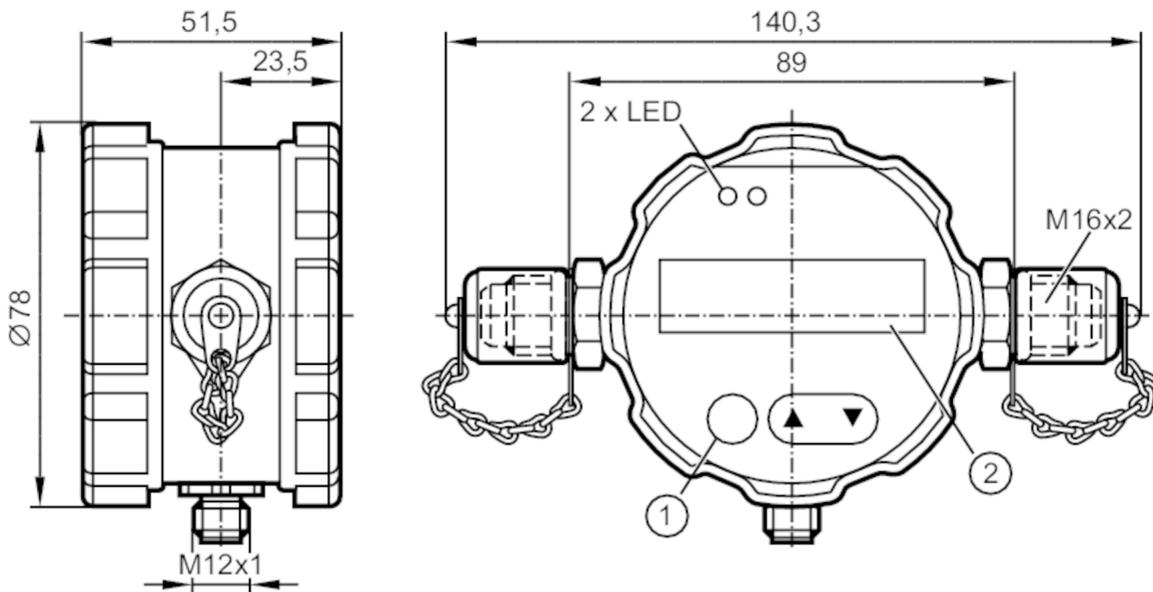
LDP100



Optical oil particle monitor

OIL PARTICLE MONITOR

For 8-wire cordsets the core colors are not standardized.
Please note the wiring of the sensor and the cordsets (see data sheet).
Please see the technical note under "Downloads"



- 1 Programming buttons
- 2 Display



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
Process connection	threaded connection M16 x 2 external thread Minimes

Application

Media	mineral oils (e.g. HLP); ester oils (e.g. HEES); biodegradable oils (e.g. HETG)
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Oil	
Medium temperature [°C]	-10...80

Electrical data

Operating voltage [V]	9...33 DC
Current consumption [mA]	< 300
Protection class	III
Measuring principle	photoelectric

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analog outputs: 1
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Outputs

Total number of outputs	2
Number of digital outputs	1
Permanent current rating of switching output DC [mA]	500
Number of analog outputs	1

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Analog current output	[mA]	4...20
Max. load	[Ω]	($U_b - 4 V$) / 20 mA; $U_b = 24 V$: 1000
Short-circuit proof		no
Overload protection		no
Measuring/setting range		
Measuring range		0...28; (Range number)
Accuracy / deviations		
Accuracy		± 1; (Range number)
Software / programming		
Parameter setting options		via buttons, PC or digital I/O
Interfaces		
Communication interface		CAN
Protocol		CANopen; SAE J1939
Operating conditions		
Operating pressure	420; (dynamic: 0...420 bar; static: 0...600 bar) bar	42 MPa
Ambient temperature	[°C]	-10...60
Storage temperature	[°C]	-20...60
Protection		IP 67
Tests / approvals		
MTTF	[years]	97
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	816.6
Materials (wetted parts)		housing: stainless steel (1.4028 / 420); sight glass: sapphire chromium-plated; sealing: NBR
Process connection		threaded connection M16 x 2 external thread Minimes
Displays / operating elements		
Display		1 LED, green Power
		1 LED, red Alarm
		LC display, displayed value corresponds to cleanliness level based on ISO 4406:21 and SAE AS4059F; NAS 1638 see operating instructions
Data memory		
Memory size		3000 data records
Remarks		
Pack quantity		1 pcs.

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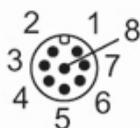


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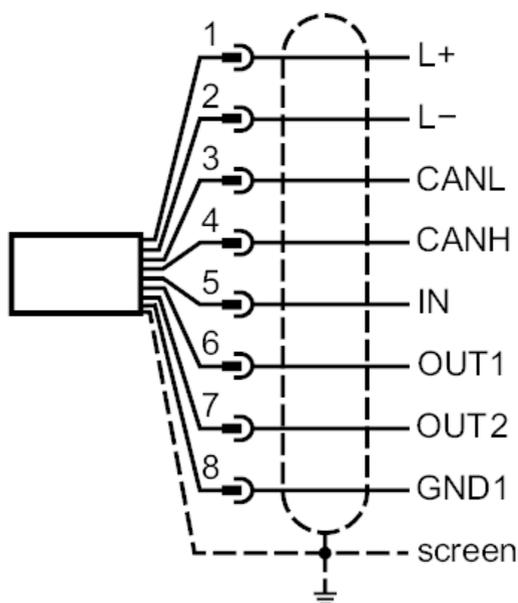
OIL PARTICLE MONITOR

Electrical connection

Connector: 1 x M12; coding: A



Connection



1:	L+
2:	L-
3:	CAN_L
4:	CAN_H
5:	IN
6:	OUT1 AO
7:	OUT2 DO
8:	GND1 signal ground
SCREEN:	screen (connected to the housing)