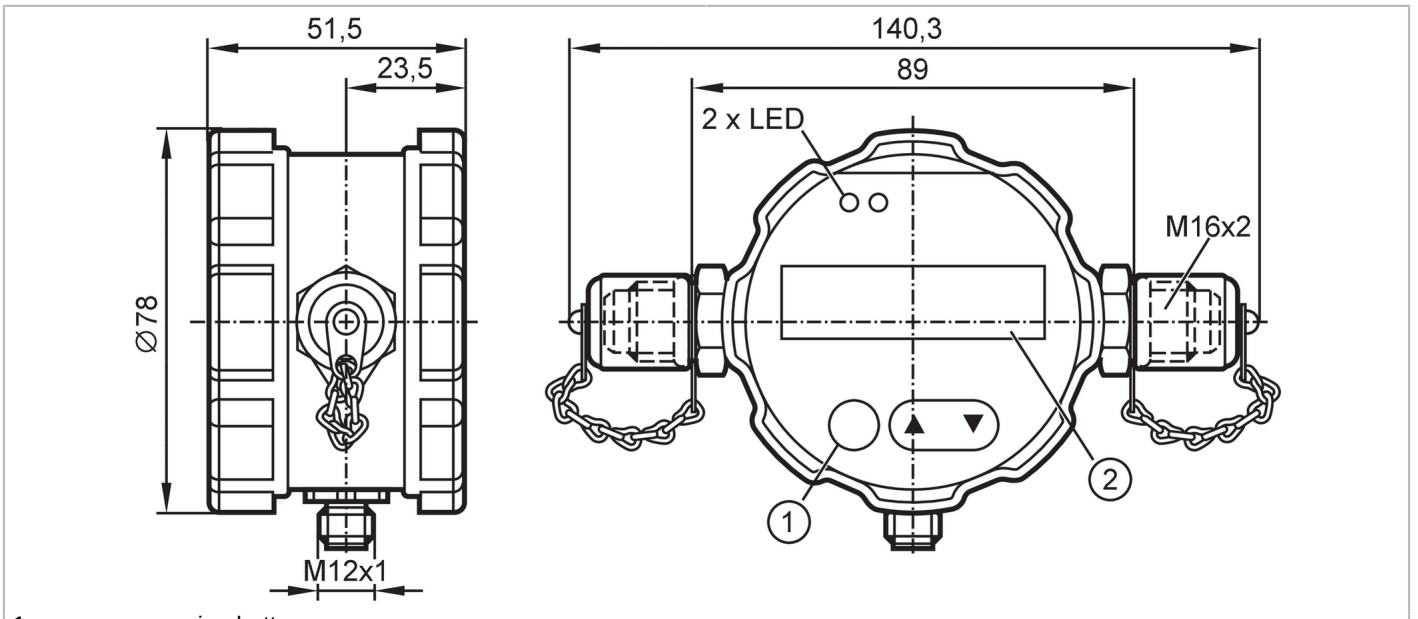
LDP100

Optical oil particle monitor

OIL PARTICLE MONITOR

For 8-pole sockets the core colours are not standardised.
Please note the wiring of the sensor and the sockets (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 analogue outputs: 1
Process connection		threaded connection M16 x 2 external thread Minimess
Application		
Media		mineral oils (e.g. HLP); ester oils (e.g. HEES); biodegradable oils (e.g. HETG)
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 analogue outputs: 1
Outputs		
Total number of outputs		2
Number of digital outputs		1
Permanent current rating of switching output DC	[mA]	500
Number of analogue outputs		1
Analogue current output	[mA]	4...20
Max. load	[Ω]	(Ub - 4 V) / 20 mA; Ub = 24 V: 1000

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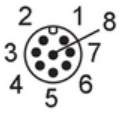
Optical oil particle monitor

OIL PARTICLE MONITOR

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 (420/1.4028); sight glass: sapphire chromium-plated; Sealing: NBR	
Process connection		threaded connection M16 x 2 external thread Minimess	
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 memories			
Memory size		3000 data records	
Remarks			
Pack quantity		1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 8

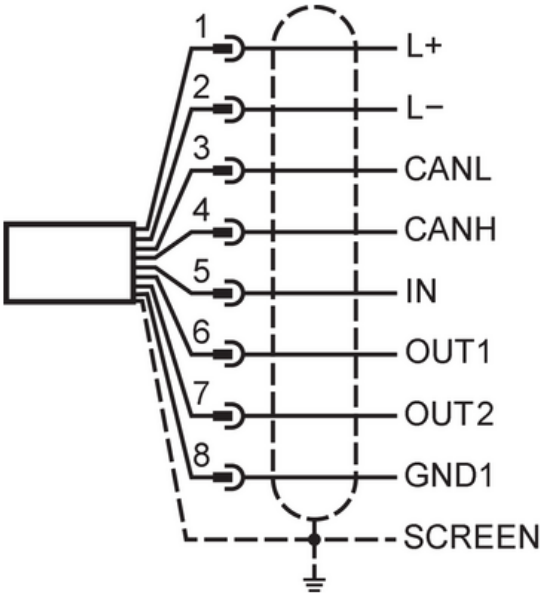


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Optical oil particle monitor

OIL PARTICLE MONITOR

Connection



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