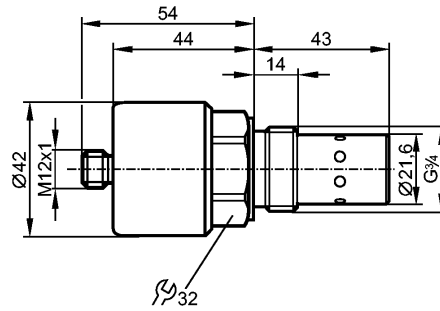


LDH100

OIL HUMIDITY SENSOR

Diagnostic systems

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



CE

Product characteristics

Detects water content in oil and air	
Quick disconnect	
Process connection: G 3/4	
Measuring range	
Medium temperature (T)	
-20...120 °C	
Rel. moisture (φ)	
0...100 %	
2 analog outputs 4...20 mA	

Application

Application	Mineral oils, synthetic esters, biodegradable oils, air	
Medium temperature oil		
- Continuous [°C]		-20...100
- Short time [°C]		-20...120

Electrical data

Electrical design	DC analog	
Operating voltage [V]	9...33 DC	
Current consumption [mA]	< 25 (≤ 60)	
Protection class	III	
Reverse polarity protection	no	

Outputs

Output	2 analog outputs 4...20 mA	
Output function	4...20 mA analog	
Analog output	2 x 4...20 mA	
Max. load [Ω]	max. (U _b -8) x 25	

Measuring / setting range

Accuracy	φ: ± 3 % / T: ± 2 %	
Resolution	φ: 1% / T: 0.1 K	

Environment

Ambient temperature [°C]	-20...85	
Storage temperature [°C]	-20...85	
Maximum vessel pressure [bar]	50	

LDH100

OIL HUMIDITY SENSOR

Diagnostic systems

Protection	IP 67
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Tests / approvals

EMC	EN 13309 IEC 61000-6-2 : 2005 IEC 61000-6-4 : 2006 + AMD1: 2010
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Vibration resistance	test following DIN EN 60068-2-6
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Mechanical data

Process connection	G 3/4
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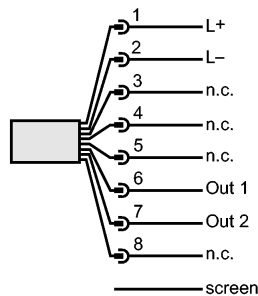
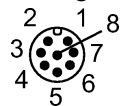
Materials (wetted parts)	aluminum; HNBR; polyurethane resin; epoxy resin
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Weight [kg]	0.167
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Electrical connection

Connection	M12 connector
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Wiring



n.c. = not connected
OUT 1: oil temperature
OUT 2: relative humidity

Remarks

Remarks	Accuracy values expressed in percent refer to the measuring span
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Pack quantity [piece]	1
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Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.