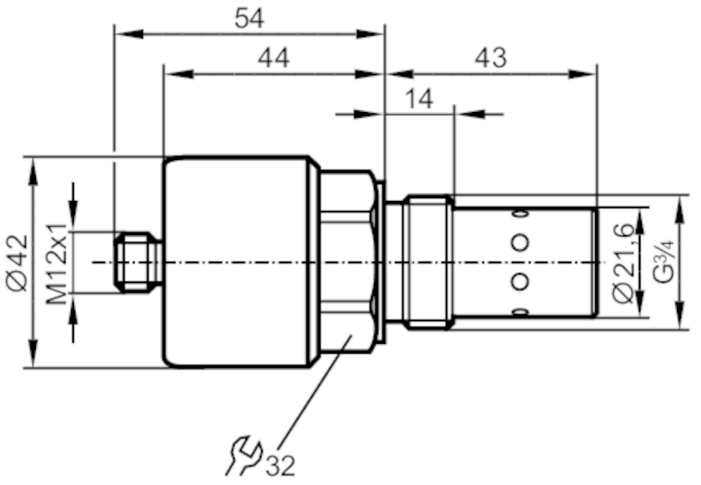
LDH100

Oil humidity sensor

OIL HUMIDITY SENSOR

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



Product characteristics		
Number of inputs and outputs		Number of analogue outputs: 2
Process connection		G 3/4
Application		
Media		mineral oils; synthetic esters; biodegradable oils
Tank pressure	[bar]	50
Oil		
Medium temperature	[°C]	-40...105
Electrical data		
Operating voltage	[V]	9...33 DC
Current consumption	[mA]	< 25
Protection class		III
Reverse polarity protection		no
Measuring principle		capacitive
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 2
Outputs		
Total number of outputs		2
Number of analogue outputs		2
Analogue current output	[mA]	4...20
Max. load	[Ω]	(Ub - 8) x 25
Resolution of analogue output		φ: 1% / T: 0.1 K

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OIL HUMIDITY SENSOR

Measuring/setting range			
Temperature monitoring			
Measuring range	[°C]	-20...120	
Accuracy / deviations			
Accuracy		φ: ± 3 % / T: ± 2 %	
Response times			
Response time	[s]	1.3	
Operating conditions			
Ambient temperature	[°C]	-40...85	
Storage temperature	[°C]	-40...85	
Max. relative air humidity	[%]	100	
Protection		IP 67	
Tests / approvals			
EMC		EN 13309	
		IEC 61000-6-2	: 2005
		IEC 61000-6-4	: 2006 + AMD1: 2010
Vibration resistance		test following DIN EN 60068-2-6	
MTTF	[years]	90	
Mechanical data			
Weight	[g]	176.5	
Materials (wetted parts)		aluminium; HNBR; polyurethane resin; epoxy resin	
Process connection		G 3/4	
Remarks			
Remarks		accuracy values expressed in percent refer to the measuring span	
Pack quantity		1 pcs.	
Electrical connection			

Connector: 1 x M12; coding: A

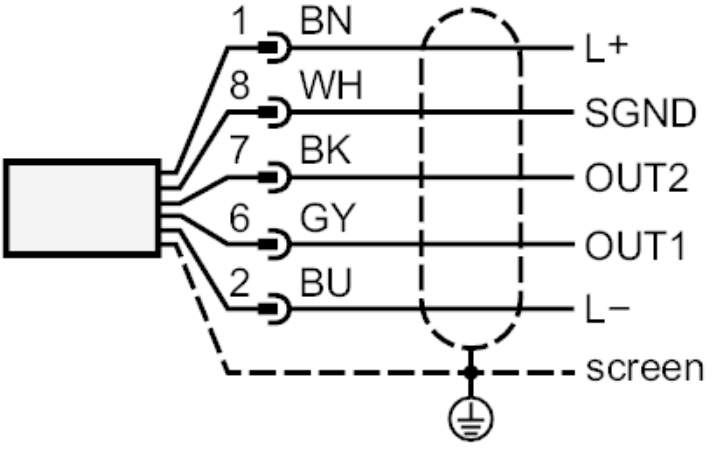


LDH100

Oil humidity sensor

OIL HUMIDITY SENSOR

Connection



SGND:	signal ground
OUT1:	oil temperature
OUT2:	relative humidity