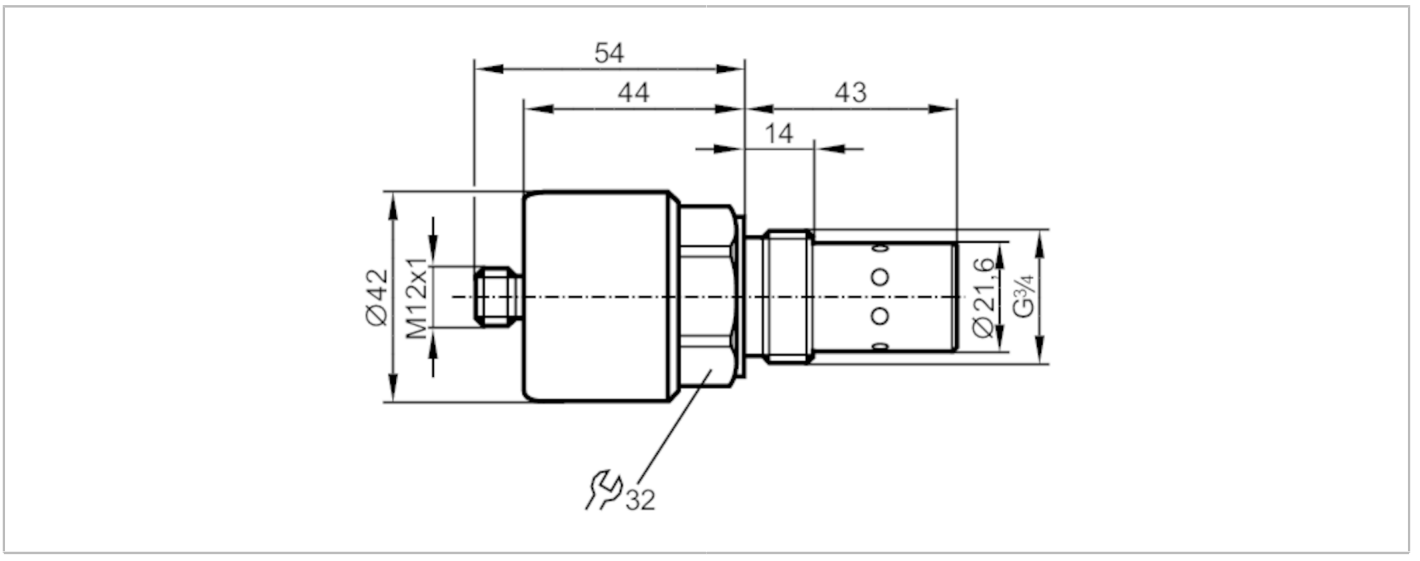
LDH100

Oil humidity sensor

OIL HUMIDITY SENSOR



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; air
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
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]	8; ((Ub - 8) x 25)
Resolution of analogue output		φ: 1% / T: 0.1 K
Measuring/setting range		
Temperature monitoring		
Measuring range	[°C]	-20...120
Accuracy / deviations		
Accuracy		φ: ± 3 % / T: ± 2 %

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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]	176.6	
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	
Notes		For 8-pole sockets the core colours are not standardised.; Please note the wiring of the sensor and the sockets (see data sheet).	
Pack quantity		1 pcs.	

Electrical connection

Connector: 1 x M12

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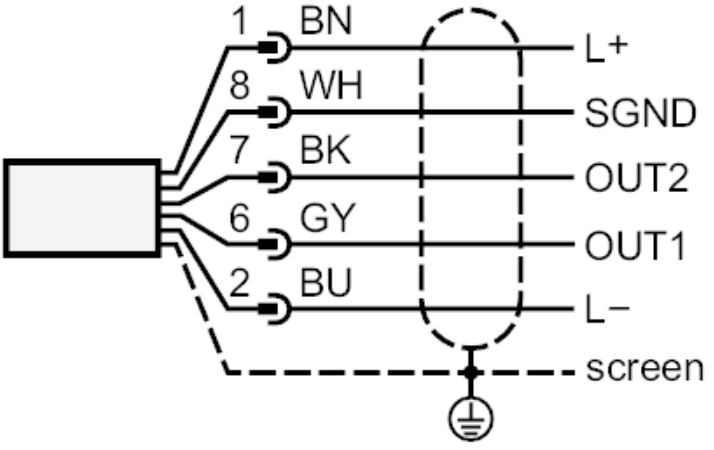
Connection



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