

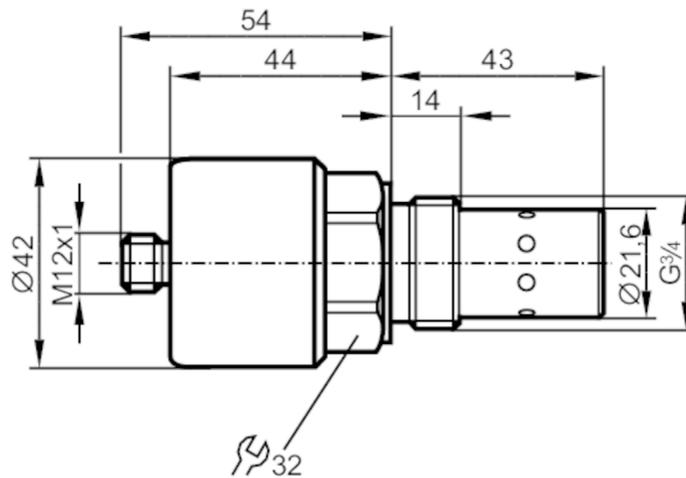
LDH100



Oil humidity sensor

OIL HUMIDITY SENSOR

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



Product characteristics

Number of inputs and outputs	Number of analog outputs: 2
Process connection	G 3/4

Application

Media	mineral oils; synthetic esters; biodegradable oils	
Tank pressure	50 bar	5 MPa

Oil

Medium temperature	[°C]	-40...105
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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 analog outputs: 2
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Outputs

Total number of outputs	2
Number of analog outputs	2
Analog current output	[mA] 4...20
Max. load	[Ω] (U _b - 8) x 25
Resolution of analog output	φ: 1% / T: 0.1 K

Measuring/setting range

Temperature monitoring

Measuring range	[°C]	-20...120
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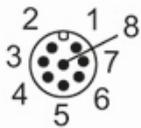


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Accuracy / deviations	
Accuracy	$\varphi: \pm 3 \% / T: \pm 2 \%$
Reaction times	
Response time [s]	1.3
Operating conditions	
Ambient temperature [°C]	-40...85
Storage temperature [°C]	-40...85
Max. relative air humidity [%]	100
Protection	IP 67
Tests / 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]	169
Materials (wetted parts)	aluminum; 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



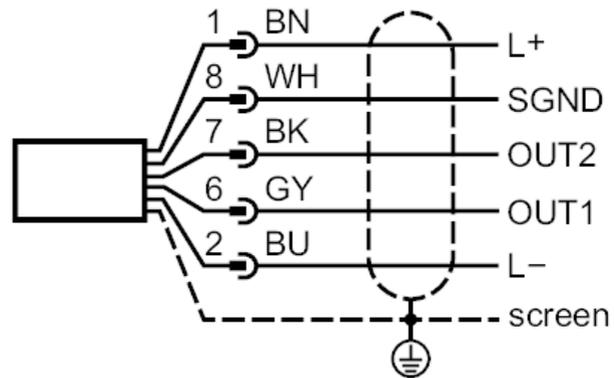
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Connection



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