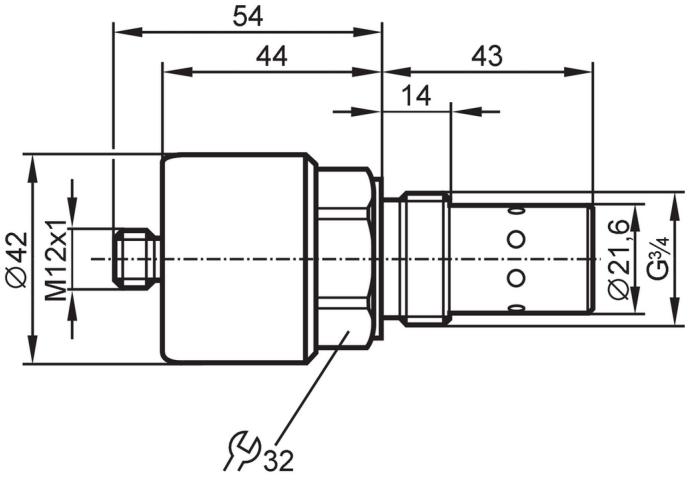
LDH100

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		50 bar	5 MPa
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	
Measuring/setting range			
Temperature monitoring			
Measuring range	[°C]	-20...120	

LDH100

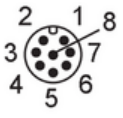
Oil humidity sensor

OIL HUMIDITY SENSOR

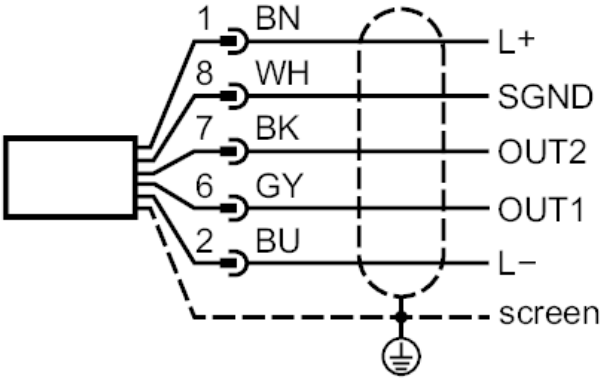
Accuracy / deviations			
Accuracy		φ: ± 3 % / T: ± 2 %	
Response times			
Response time	[s]	1.3	
Operating conditions			
Ambient temperature	[°C]	-40...85	
Storage temperature	[°C]	-40...85	
Max. relative air humidity	[%]	100	
Protection		IP 67	
Tests / approvals			
EMC		EN 13309	
		IEC 61000-6-2	: 2005
		IEC 61000-6-4	: 2006 + AMD1: 2010
Vibration resistance		test following DIN EN 60068-2-6	
MTTF	[years]	90	
Mechanical data			
Weight	[g]	169	
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; Contacts: 8



Connection



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