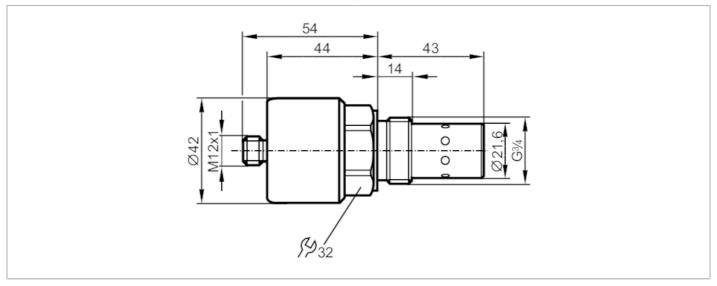
LDH100

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).



C€ CA CA

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]	-40105			
Electrical data					
Operating voltage	[V]	933 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]	420			
Max. load	[Ω]	(Ub - 8) x 25			
Resolution of analogue output	- (N: 19/0 / 1:11 K				

LDH100

Oil humidity sensor





Measuring/setting range					
Temperature monitoring					
Measuring range	[°C]	-20120			
Accuracy / deviations					
Accuracy		φ: ± 3 % / T: ± 2 %			
Response times					
Response time	[s]	1.3			
Operating conditions					
Ambient temperature	[°C]	-4085			
Storage temperature	[°C]	-4085			
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



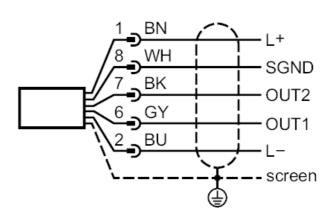
LDH100

Oil humidity sensor

OIL HUMIDITY SENSOR



Connection



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