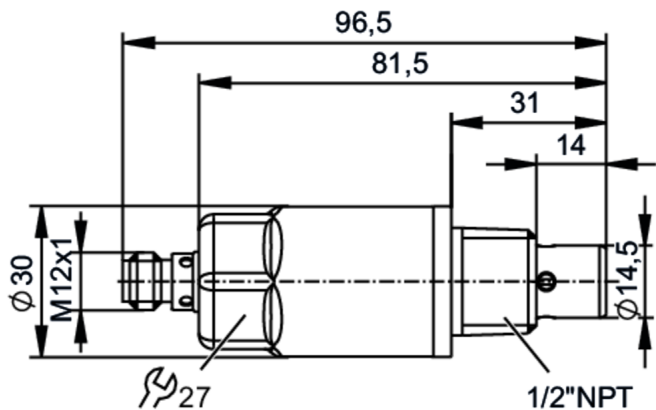


LDH122

Oil humidity sensor

OIL HUMIDITY SENSOR IO-LINK



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 1
Process connection	threaded connection 1/2" NPT
Application	
Special feature	Gold-plated contacts
Media	mineral oils; synthetic esters; biodegradable oils
Cannot be used for	See operating instructions, chapter "Intended use".
Medium temperature [°C]	-40...120
Pressure rating [bar]	50
Vacuum resistance [mbar]	-1000
Electrical data	
Operating voltage [V]	18...30 DC
Current consumption [mA]	< 50
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	2
Max. current load total [A]	0.065
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 1
Outputs	
Total number of outputs	1
Output signal	IO-Link
Number of digital outputs	1
Measuring/setting range	
Measuring range [% RH]	0...100
Temperature measurement	
Measuring range [°C]	-40...120
Accuracy / deviations	
Accuracy	± 3; (± 5 % in the range < 10 %, > 90 %)

LDH122



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OIL HUMIDITY SENSOR IO-LINK

Repeatability		± 0,5
	[% of the final value]	
Resolution	[%]	0,1; (process value)
Temperature measurement		
Accuracy	[K]	± 1
Repeatability	[K]	± 0,5
Resolution	[K]	0.1
Response times		
Response time	[s]	oil: T09 < 30
Temperature measurement		
Response time	[s]	oil: T09 < 30
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Identification and Diagnosis (0x4000), Measurement Data Channel (0x800A)	
SIO mode	no	
Required master port type	A	
Process data analogue	5	
Min. process cycle time	[ms]	4.5
Supported DeviceIDs	Type of operation	DeviceID
	default	1249
Operating conditions		
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	100
Protection	IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68)	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-4	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[years]	284
UL approval	File number UL	E364788
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight	[g]	117
Materials	stainless steel (316L/1.4404); PEI; Sealing: FKM	
Materials (wetted parts)	stainless steel (316L/1.4404); PA6 GF50; epoxy resin; Sealing: NBR	
Process connection	threaded connection 1/2" NPT	
Remarks		
Remarks	accuracy values expressed in percent refer to the measuring span	
Pack quantity	1 pcs.	

LDH122



Oil humidity sensor

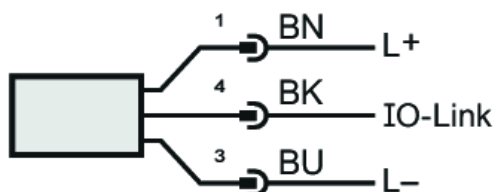
OIL HUMIDITY SENSOR IO-LINK

Electrical connection

Connector: 1 x M12 (EN 61067-2-101); coding: A; Contacts: gold-plated



Connection



	colours to DIN EN 60947-5-2
BK=	black
BN=	brown
BU=	blue