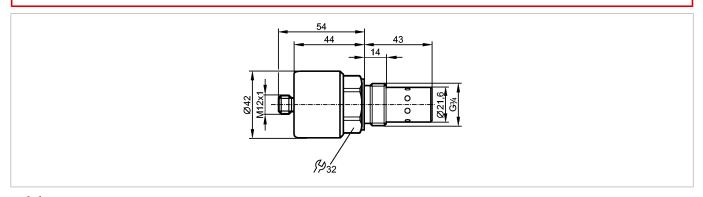
# efector160

### **LDH100**

OIL HUMIDITY SENSOR Diagnostic systems

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



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Product characteristics		
Detects water content in oil a	ınd air	
Connector		
Process connection: G ¾		
Measuring range		
Rel. moisture (φ)		
0100 %		
2 analogue outputs 420 mA	4	
Application		
Application		Mineral oils, synthetic esters, biodegradable oils, air
Medium temperature oil	[°C]	-2085
Electrical data		
Electrical design		DC analogue
Operating voltage	[V]	933 DC
Current consumption	[mA]	< 25 (≤ 60)
Protection class		III
Reverse polarity protection		no
Outputs		
Output		2 analogue outputs 420 mA
Output function		420 mA analogue
Analogue output		2 x 420 mA
Max. load	[Ω]	max. (Ub-8) x 25
Measuring <i>l</i> setting range		
Accuracy		φ: ± 3 % / T: ± 2 %
Resolution		φ: 1% / T: 0.1 K
Environment		
Ambient temperature	[°C]	-2085
Storage temperature	[°C]	-2085
Maximum vessel pressure	[bar]	50
Protection		IP 67
Tests / approvals		
EMC		EN 13309

IEC 61000-6-2

IEC 61000-6-4

: 2005

: 2006 + AMD1: 2010

## efector160

#### **LDH100**

OIL HUMIDITY SENSOR



Diagnostic systems

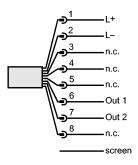
Vibration resistance		test following DIN EN 60068-2-6
MTTF	[Years]	90
Mechanical data		
Process connection		G ¾
Materials (wetted parts)		aluminium; HNBR; polyurethane resin; epoxy resin
Weight	[kg]	0.167

#### **Electrical connection**

Connection M12 connector

Wiring





n.c. = not connected OUT 1: oil temperature OUT 2: relative humidity

Remarks				
Remarks		Accuracy values expressed in percent refer to the measuring span		
Pack quantity	[piece]	1		

ifm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — GB — LDH100 — 08.07.2016

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.