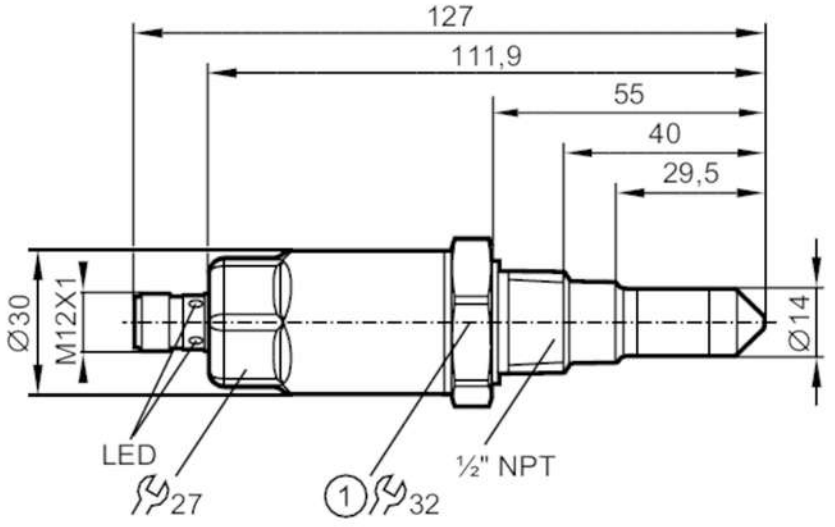
LMC502

Sensor for point level detection

LMCCE-N12E-QSKG-2/US



1 Tightening torque 50 Nm

Product characteristics			
Number of inputs and outputs		Number of digital outputs: 2	
Process connection		1/2" NPT	
Application			
Special feature		Gold-plated contacts	
Media		Liquids; viscous media; powder	
Recommended media		water; hydrous media; oils; oil-based media; powder	
Cannot be used for		See the operating instructions, chapter "Function and features".	
Probe length	[mm]	40	
Tank pressure		-1...40 bar	-0.1...4 MPa
MAWP (for applications according to CRN)	[bar]	40	
Oil			
Medium temperature	[°C]	-20...100	
Medium temperature short time	[°C]	-20...150; (1 h)	
Water			
Medium temperature	[°C]	-20...100	
Medium temperature short time	[°C]	-20...150; (1 h)	

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Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Measuring principle		capacitive
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Outputs		
Total number of outputs		2
Output signal		switching signal; IO-Link
Electrical design		PNP/NPN
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 FDIS
Profiles		Smart Sensor: Process Data Variable; Device Identification
SIO mode		yes
Required master port type		A
Process data analogue		1
Process data binary		2
Min. process cycle time	[ms]	2.3
Supported DeviceIDs		**Type of operation** / **DeviceID**
		default / 370
Operating conditions		
Ambient temperature	[°C]	-20...85
Note on ambient temperature		Medium temperature: < 100 °C
		-20...60 °C
		Medium temperature: < 150 °C
Storage temperature	[°C]	-40...85
Protection		IP 68; IP 69K

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Tests / approvals			
EMC		DIN EN 61000-6-2	
		DIN EN 61000-6-4	open tanks
		DIN EN 61000-6-3	closed tanks
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]	223	

Mechanical data		
Weight	[g]	252
Materials		stainless steel (316L/1.4404); PEEK; PEI; FKM
Materials (wetted parts)		PEEK; FKM
Process connection		1/2" NPT
Surface characteristics Ra/Rz of the wetted parts		< 0.8

Displays / operating elements		
Display	switching status	2 x LED, yellow
	operating status	2 x LED, green

Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

