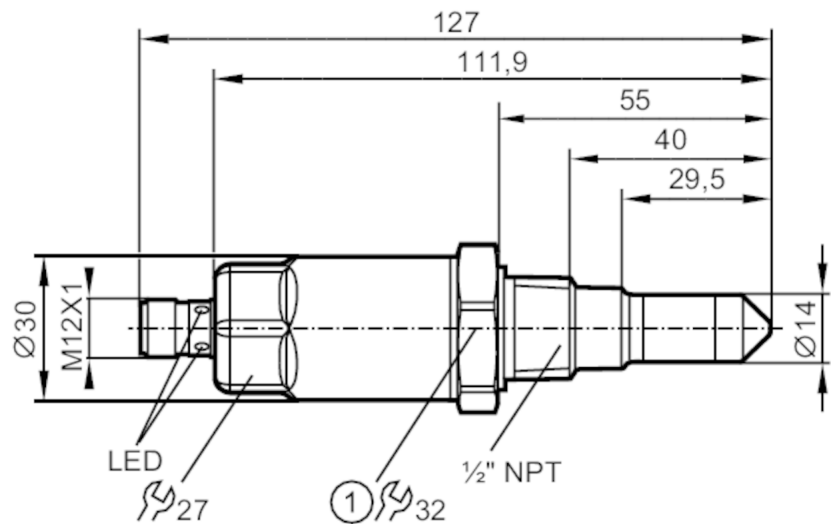


LMC502



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

System	gold-plated contacts
Media	Liquids; viscous media; powder
Recommended media	water; water-based 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
MAWP (for applications according to CRN) [bar]	-0.1...4 MPa
	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 / closed; (configurable)
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		yes (non-latching)
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 - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
SIO mode		yes
Required master port class		A
Process data analog		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
Material	stainless steel (1.4404 / 316L); PEEK; PEI; FKM
Materials (wetted parts)	PEEK; FKM
Process connection	1/2" NPT
Surface characteristics Ra/Rz of the wetted parts	Ra < 0.8 µm

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

