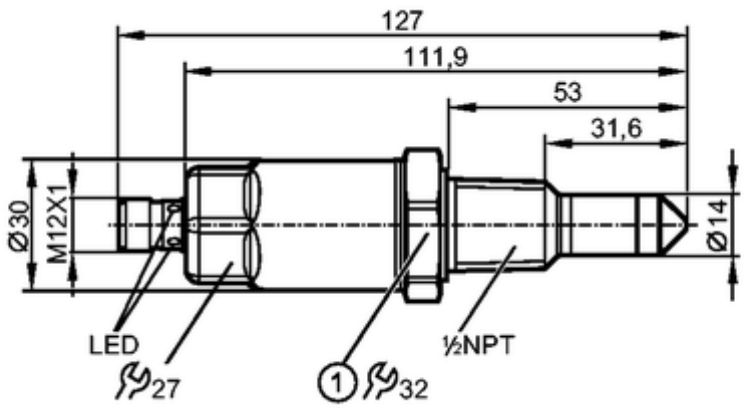
efector160

LMC502

LMCCE-N12E-QSKG-2/US

Level sensors



1: tightening torque 50 Nm

CE cULus LISTED IO-Link

Product characteristics	
Electronic level sensor	
Connector	
Process connection: ½" NPT	
Gold-plated contacts	
Probe length: 38 mm	
2 switching outputs	

Application	
Application	liquids, viscous media and powders
Recommended media	water, water-based media, oils, oil-based media, powdery media
Cannot be used for:	See the operating instructions, chapter "Function and features".
Medium temperature oil	
- Continuous [°C]	-20...100
- Short time [°C]	-20...150 (1 h)
Medium temperature water and hydrous media	
- Continuous [°C]	-20...85
- Short time [°C]	-20...150 (1 h)

Electrical data	
Electrical design	DC PNP/NPN
Operating voltage [V]	18...30 DC
Current consumption [mA]	< 50
Protection class	III
Reverse polarity protection	yes

Outputs	
Output	2 switching outputs
Output function	2 x normally open / closed programmable
Current rating [mA]	100
Voltage drop [V]	< 2.5
Short-circuit protection	pulsed

Overload protection	yes

Interfaces

IO-Link device

Transfer type	COM2 (38.4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9 FDIS
IO-Link device ID	370 d / 00 01 72 h
Profiles	Smart Sensor: Process Data Variable; Device Identification
SIO mode	yes
Required master port class	A
Process data analogue	1
Process data binary	2
Min. process cycle time [ms]	2.3

Environment

Ambient temperature [°C]	-20...85, at max. 100 °C medium temperature (-20...60 °C at max. 150 °C medium temperature)
Storage temperature [°C]	-40...85
Maximum vessel pressure [bar]	-1...40
Protection	IP 68 / IP 69K

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

Process connection	½" NPT
Materials (wetted parts)	PEEK; surface characteristics: Ra < 0.8
Housing materials	1.4404; PEEK; PEI; FKM
Weight [kg]	0.258

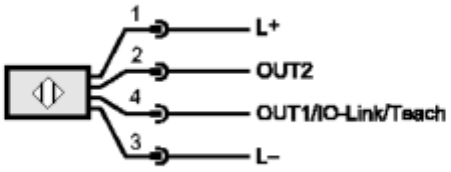
Displays / operating elements

Display	Switching status	2 LED yellow
	Operating status	2 LED green

Electrical connection

Connection	M12 connector; Gold-plated contacts

Wiring



Remarks

Pack quantity [piece]	1