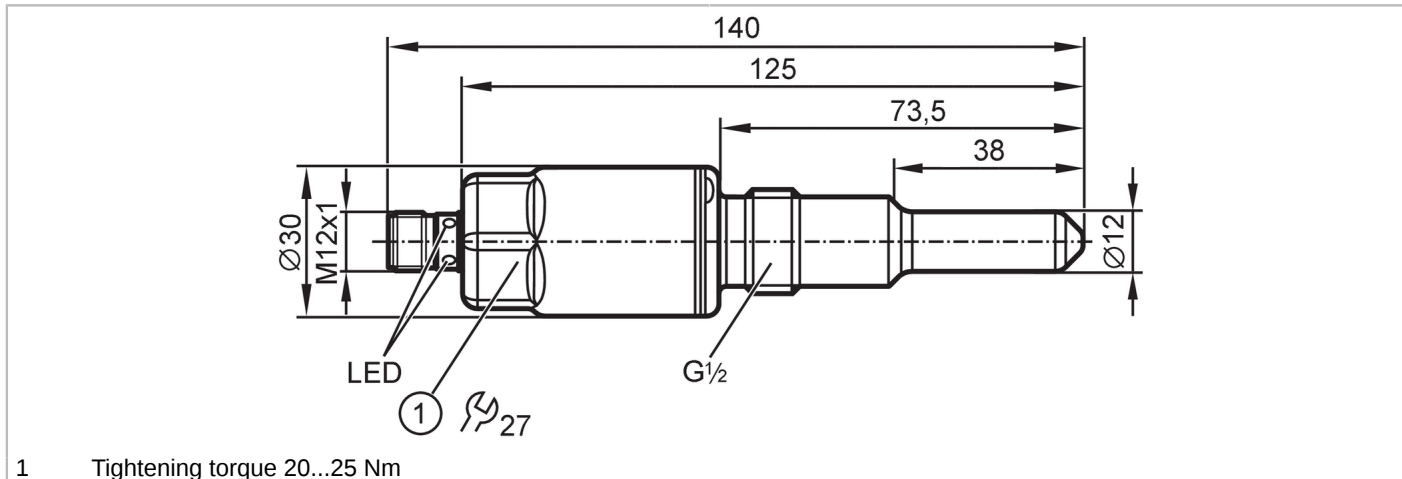


LMT102



Sensor for point level detection

LMCCE-A12E-QSKG-2/US



ACS



CRN



EC 1935/2004

EHDG Certified

FCM



IO-Link

KTW/W270



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Factory setting	hydrous media
Process connection	threaded connection G 1/2 sealing cone

Application

Special feature	Gold-plated contacts
Media	Fluessige_Medien pastoese_Medien; 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]	38
Tank pressure	-1...40; (MAWP for applications according to CRN: 40 bar / 4 MPa) bar
	-0.1...4; (MAWP for applications according to CRN: 40 bar / 4 MPa) MPa

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)

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
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LMT102



Sensor for point level detection

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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	
Measuring/setting range		
Factory setting	hydrous media	
Response times		
Response time [s]	< 0.5	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
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	
Storage temperature [°C]	Medium temperature: < 150 °C	
	-40...85	
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)

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MTTF	[years]	223
UL approval	UL approval no.	H001

Mechanical data		
Weight	[g]	202
Dimensions	[mm]	Ø 30 / L = 125
Materials		stainless steel (316L/1.4404); PEEK; PEI; FKM
Materials (wetted parts)		PEEK surface characteristics: Ra < 0,8 µm / Rz = 4 µm
Process connection		threaded connection G 1/2 sealing cone

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

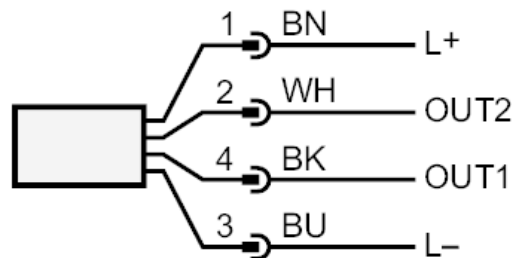
Remarks	
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT1: switching output IO-Link Teach
OUT2: switching output
colours to DIN EN 60947-5-2
Core colours :
BK = black
BN = brown
BU = blue
WH = white