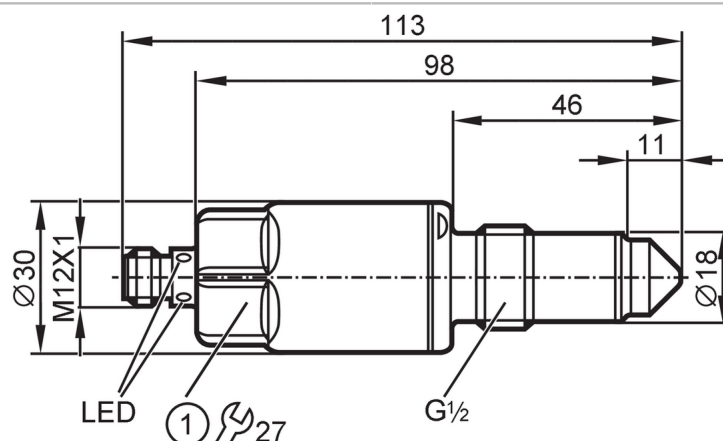


LMT01A



Sensor for point level detection in hazardous areas

LMACE-A12E-QSKG-1/US/3D/3G



1 Tightening torque 20...25 Nm



CRN

EC 1935/2004

EHEDG Certified



FCM



IO-Link

KTW/W270



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Factory setting	oils; oil-based media; powder
Process connection	threaded connection G 1/2 sealing cone

Application

Special feature	gold-plated contacts
Media	liquid and viscous media; powder
Cannot be used for	See the operating instructions, chapter "Function and features".
Medium temperature [°C]	-20...85
Probe length [mm]	11
Tank pressure	-1...40 bar -0.1...4 MPa
MAWP (for applications according to CRN)	40 bar 4 MPa

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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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

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Permanent current rating of switching output DC [mA]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Measuring/setting range

Factory setting	oils; oil-based media; powder
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Reaction times

Response time [s]	< 0.5
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Interfaces

Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
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	305

Operating conditions

Ambient temperature [°C]	-20...60
Storage temperature [°C]	-40...85
Protection	IP 67; (when used outside the hazardous area: IP 68 / IP 69)

Tests / approvals

Approval	BVS 24 ATEX E 047 X; IECEx BVS 24.0041X	
ATEX marking	 II 3D Ex tc IIIC T90°C Dc	
	 II 3G Ex ec IIC T4 Gc	
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-4	open tanks
	DIN EN 61000-6-3	closed tanks
Shock resistance	DIN EN 68000-2-27	50 g (11 ms)
Vibration resistance	DIN EN 68000-2-6	20 g (10...2000 Hz)
MTTF	[years]	223

Mechanical data

Weight [g]	218
Dimensions [mm]	Ø 30 / L = 113
Material	stainless steel (1.4404 / 316L); 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

LMT01A



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Displays / operating elements

Display	Switching status	LED, yellow
	operating status	LED, green

Remarks

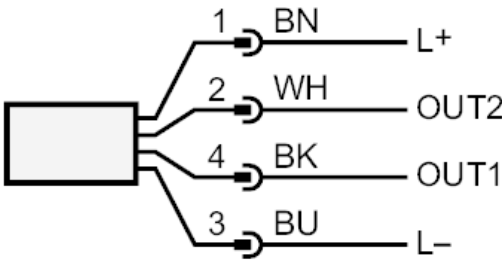
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection



OUT1: Switching output IO-Link Teach

OUT2: Switching output
Colors to DIN EN 60947-5-2

Core colors :

BK = black
BN = brown
BU = blue
WH = white