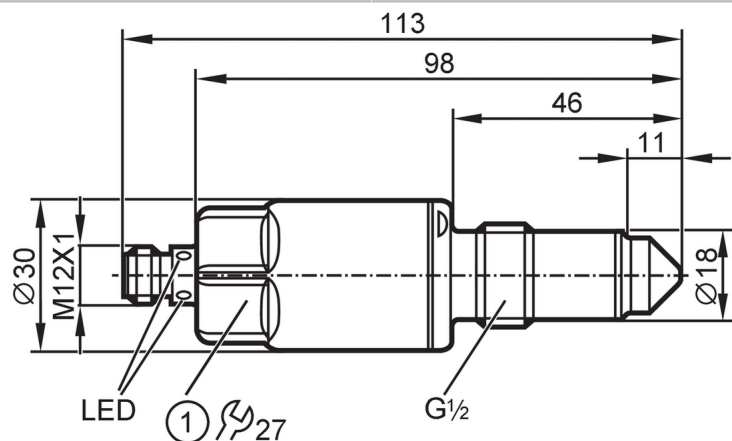


LMT110



Sensor for point level detection

LMACE-A12E/QSKG/1/US



1 Tightening torque 20...25 Nm



CRN



EC 1935/2004

EHEDG Certified

FCM CN

FCM JP



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Factory setting	oils; oil-based media
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".
Probe length [mm]	11
Tank pressure	-1...40 bar -0.1...4 MPa
MAWP for applications according to CRN [bar]	40

Oil

Medium temperature [°C]	-40...100
Medium temperature short time [°C]	-40...150; (1 h)

Water

Medium temperature [°C]	-40...100
Medium temperature short time [°C]	-40...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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Outputs

Total number of outputs	2
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LMT110



Sensor for point level detection

LMAE-A12E/QSKG/1/US

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	oils; oil-based media
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Response 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 type	A				
Process data analogue	1				
Process data binary	2				
Min. process cycle time [ms]	2.3				
Supported DeviceIDs	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>305</td></tr> </table>	Type of operation	DeviceID	default	305
Type of operation	DeviceID				
default	305				

Operating conditions

Ambient temperature [°C]	-40...85
Note on ambient temperature	Medium temperature: < 100 °C -40...60 °C Medium temperature: < 150 °C
Storage temperature [°C]	-40...85
Protection	IP 68; IP 69K

Tests / approvals

EMC	<table> <tr> <td>DIN EN 61000-6-2</td><td></td></tr> <tr> <td>DIN EN 61000-6-4</td><td>: open tanks</td></tr> <tr> <td>DIN EN 61000-6-3</td><td>: closed tanks</td></tr> </table>	DIN EN 61000-6-2		DIN EN 61000-6-4	: open tanks	DIN EN 61000-6-3	: closed tanks
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						
UL approval	UL approval no. H001						

Mechanical data

Weight [g]	210
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LMACE-A12E/QSKG/1/US

Dimensions	[mm]	Ø 30 / L = 113
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

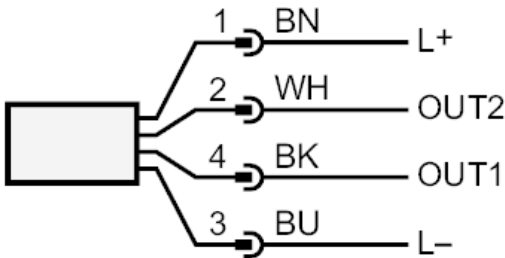
Pack quantity	1 pcs.
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Electrical connection

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



Connection



OUT1: switching output IO-Link Teach
OUT2: switching output
colours to DIN EN 60947-5-2

Core colours :

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