



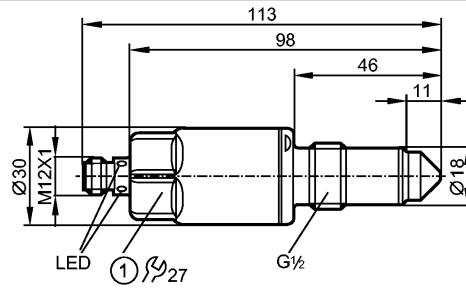
# LMT110

LMACE-A12E/QSKG/1/US



Level sensors

### Technical note: PDF



1: tightening torque 20...25 Nm



EC 1935/2004 EHEDG Certified



## IO-Link

### Product characteristics

Electronic level sensor

Quick disconnect

Process connection: G 1/2 A

gold-plated contacts

Probe length: 11 mm

Communication interface: IO-Link 1.1

2 switching outputs

### Application

Application: liquid, viscous and powdery media

Recommended media: oil-based media

Cannot be used for: See the operating instructions, chapter "Function and features".

### Medium temperature oil

- Continuous [°C]: -40...100

- Short time [°C]: -40...150 (1 h)

### Medium temperature water and hydrous media

- Continuous [°C]: -40...85

- Short time [°C]: -40...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: yes (non-latching)

Overload protection: yes

### Measuring / setting range

Factory setting: oils, oil-based media



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## Interfaces

IO-Link Device	
Transfer type	COM2 (38.4 kBaut)
IO-Link revision	1.1
SDCI standard	IEC 61131-9
IO-Link Device ID	0x000131
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]	-40...85, at max. 100 °C medium temperature (-40...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
UL approval number	H001

## Mechanical data

Process connection	G ½ A
Materials (wetted parts)	PEEK; surface characteristics: Ra < 0.8
Housing materials	stainless steel (316L / 1.4404); PEEK; PEI; FKM
Weight [kg]	0.209

## Displays / operating elements

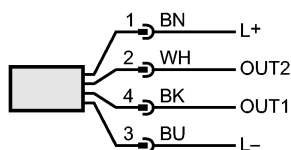
Display	Switching status LEDs yellow operating status LEDs green
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## Electrical connection

Connection	M12 connector; gold-plated contacts
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### Wiring

- Core colors
- BK black
- BN brown
- BU blue
- WH white



OUT1: Switching output / IO-Link / Teach  
 OUT2: Switching output  
 Colours to DIN EN 60947-5-2



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## Remarks

Pack quantity [piece] 1

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**Technical note: PDF**