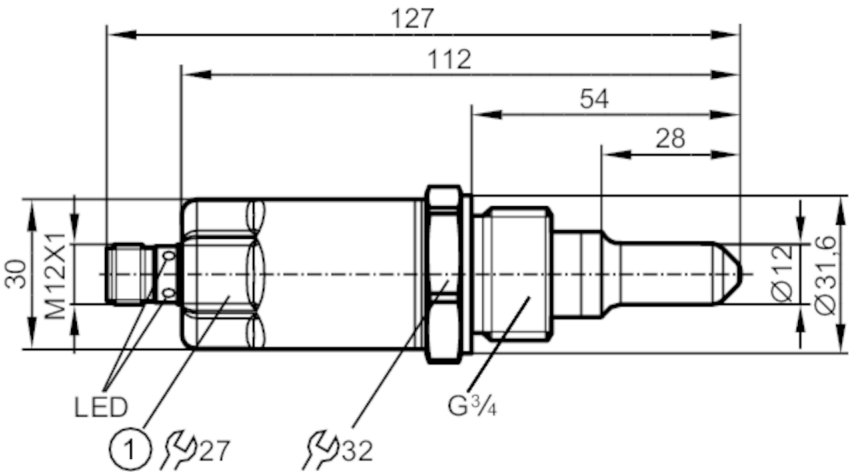


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Sensor for point level detection

LMBCE-A34E-QPKG-2/US



1 Tightening torque 35 Nm



Product characteristics		
Number of inputs and outputs	Number of digital outputs: 2	
Factory setting	water-based media	
Process connection	G 3/4 external thread	
Application		
System	gold-plated contacts	
Installation	suited for installation in existing tuning fork adapters	
Media	Liquids	
Recommended media	water; water-based media; oils; oil-based media	
Cannot be used for	See the operating instructions, chapter "Function and features".	
Probe length	[mm]	28
Tank pressure	-1...40; (Applications according to the German Federal Water Act (WHG): -0,5...10 bar) bar	-0.1...4; (Applications according to the German Federal Water Act (WHG): -0,5...10 bar) MPa
Oil		
Medium temperature	[°C]	-25...100; (Applications according to the German Federal Water Act (WHG) 0...100 °C)
Medium temperature short time	[°C]	-25...150; (1 h; Applications according to the German Federal Water Act (WHG): 0...100 °C)
Water		
Medium temperature	[°C]	-25...85; (Applications according to the German Federal Water Act (WHG): 0...85 °C)
Medium temperature short time	[°C]	-25...150; (1 h; Applications according to the German Federal Water Act (WHG): 0...100 °C)
Electrical data		
Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Protection class		III

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Reverse polarity protection	yes						
Measuring principle	capacitive						
Inputs / outputs							
Number of inputs and outputs	Number of digital outputs: 2						
Outputs							
Total number of outputs	2						
Output signal	switching signal; IO-Link						
Electrical design	PNP						
Number of digital outputs	2						
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	yes (non-latching)						
Overload protection	yes						
Measuring/setting range							
Factory setting	water-based media						
Reaction 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						
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	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>449</td></tr> </table>	Type of operation	DeviceID	default	449		
Type of operation	DeviceID						
default	449						
Operating conditions							
Ambient temperature [°C]	-20...85						
Note on ambient temperature	Medium temperature 100...150 °C						
	-40...60 °C						
Storage temperature [°C]	-40...85						
Protection	IP 68; IP 69K						
Tests / approvals							
Approval	WHG; General building authority approval; overflow prevention						
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)						

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Sensor for point level detection

LMBCE-A34E-QPKG-2/US

Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]		222.77
UL approval	UL approval number	H001

Mechanical data		
Weight [g]		295.5
Dimensions [mm]		Ø 30 / L = 112
Material		stainless steel (1.4404 / 316L); PEEK; PEI; FKM
Materials (wetted parts)		PEEK surface characteristics: Ra < 0,8 µm / Rz = 4 µm
Process connection		G 3/4 external thread

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

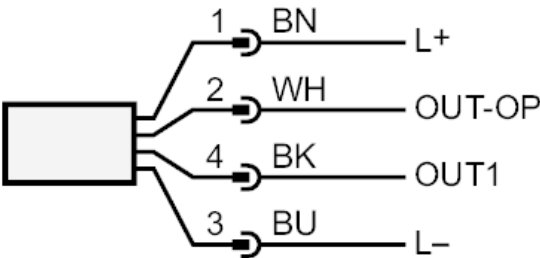
Remarks		
Pack quantity		1 pcs.

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



Connection



OUT1:	Switching output
OUT-OP	Switching output overflow prevention to the German Federal Water Act (WHG)
	Colors to DIN EN 60947-5-2
	Core colors :
BK =	black
BN =	brown
BU =	blue
WH =	white