

LX0020



Sensor for point level detection

LMDCE-A12E-QSKG-2/US



1 Tightening torque 20...25 Nm



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Factory setting	oil-based media
Process connection	G 1/2 external thread

Application

System	gold-plated contacts
Media	Liquids
Recommended media	Refrigerants (Freon: R134a, R22, R717); oils; oil-based media
Probe length [mm]	153
Tank pressure	-1...40 bar -0.1...4 MPa

Oil

Medium temperature [°C]	-20...100
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Water

Medium temperature [°C]	-20...85
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Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 50
Protection class	III
Reverse polarity protection	yes

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)

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Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Factory setting		NPN
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Measuring/setting range

Factory setting	oil-based media
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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	
Profiles	Smart Sensor: Process Data Variable; Device Identification	
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	586

Operating conditions

Ambient temperature	[°C]	-20...85
Note on ambient temperature		Medium temperature: < 100 °C
Storage temperature	[°C]	-40...85
Protection		IP 68; IP 69K

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-4	: closed tanks
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	8 g (10...2000 Hz)
MTTF	[years]	222
UL approval	UL approval number	H001

Mechanical data

Weight	[g]	279.5
Dimensions	[mm]	Ø 30 / L = 255
Material		stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK; PEI; CR
Materials (wetted parts)		stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK; surface characteristics: Ra < 0,8 / Rz 4; CR
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Displays / operating elements

Display	Switching status	LED, yellow
	operating status	LED, green

Remarks

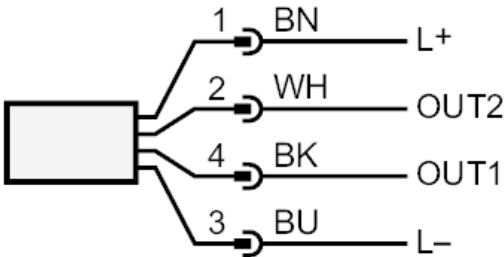
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: 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