

LX0020



Sensor for point level detection

LMDCE-A12E-QSKG-2/US



1 Tightening torque 20...25 Nm



Application

Media	Liquids
Recommended media	cryogenics (Freon: R134a, R22, R717); oils; oil-based media
Probe length [mm]	153
Tank pressure [bar]	-1...40
oil	
Medium temperature [°C]	-20...100
water	
Medium temperature [°C]	-20...85

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
------------------------------	------------------------------

LX0020



Sensor for point level detection

LMDCE-A12E-QSKG-2/US

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 / 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	oil-based media	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
IO-Link device ID	0x00024A	
Profiles	Smart Sensor: Process Data Variable; Device Identification	
SIO mode	yes	
Required master port type	A	
Process data analogue	1	
Process data binary	2	
Min. process cycle time [ms]	2.3	
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 no.	H001

LX0020



Sensor for point level detection

LMDCE-A12E-QSKG-2/US

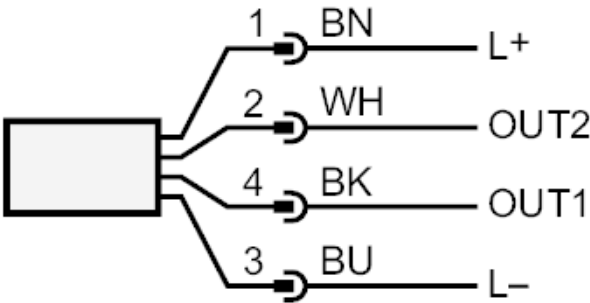
Mechanical data		
Weight	[g]	279.4
Materials	stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK; PEI; CR	
Materials (wetted parts)	stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK; CR	
Process connection	G 1/2 external thread	
Surface characteristics Ra/Rz of the wetted parts	< 0.8	
Displays / operating elements		
Display	switching status	LEDs, yellow
	operating status	LEDs, green
Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; Contacts: 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