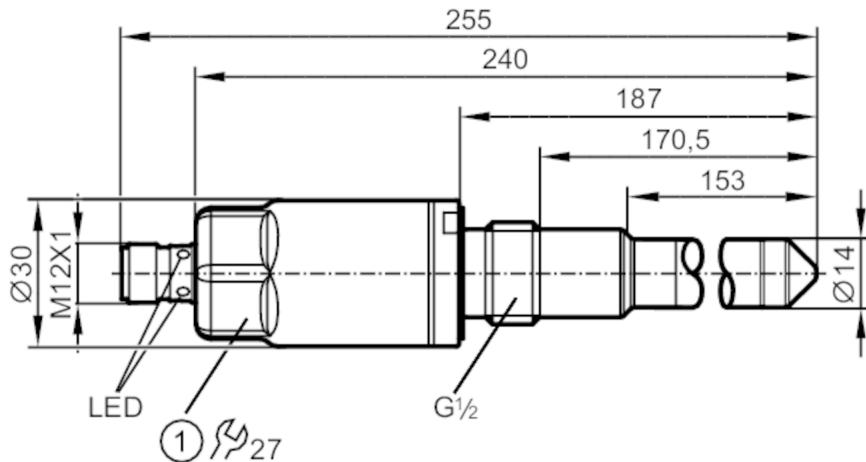


Level sensor for limit detection with overspill protection (German Federal Water Act)

LMDCE-A12E-QPKG-2/US



1 Tightening torque 20...25 Nm



Product characteristics		
Number of inputs and outputs		Number of digital outputs: 2
Factory setting		water-based media
Process connection		threaded connection G 1/2 sealing cone
Application		
System		gold-plated contacts
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]		153
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
Reverse polarity protection		yes
Measuring principle		capacitive

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LMDCE-A12E-QPKG-2/US

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		Type of operation
		DeviceID
		default 449
Operating conditions		
Ambient temperature [°C]		-20...85
Note on ambient temperature		Medium temperature 100...150 °C
Storage temperature [°C]		-40...60 °C
Protection		-40...85
		IP 68; IP 69K
Tests / approvals		
Approval		WHG; General building authority approval; overflow prevention
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-4	open 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]		222.21
UL approval	UL approval number	H001

LMT194



Level sensor for limit detection with overspill protection (German Federal Water Act)

LMCDE-A12E-QPKG-2/US

Mechanical data

Weight	[g]	329
Dimensions	[mm]	Ø 30 / L = 255
Material		stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK; PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK surface characteristics: Ra < 0,8 µm / Rz = 4 µm; FKM
Process connection		threaded connection G 1/2 sealing cone

Displays / operating elements

Display	Switching status	LED, yellow
	operating status	LED, green

Remarks

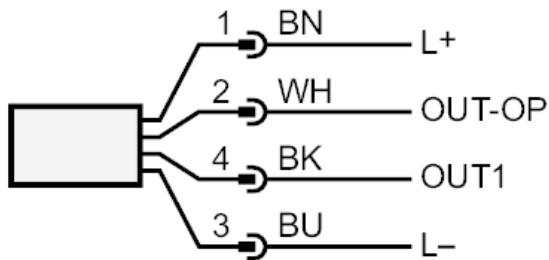
Pack quantity	1 pcs.
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Electrical connection

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