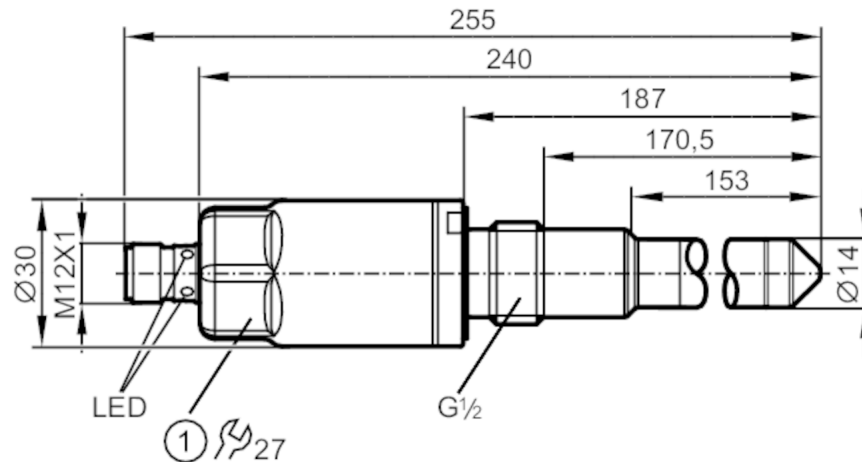


LMT194



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

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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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	
		-40...60 °C	
Storage temperature [°C]		-40...85	
Protection		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

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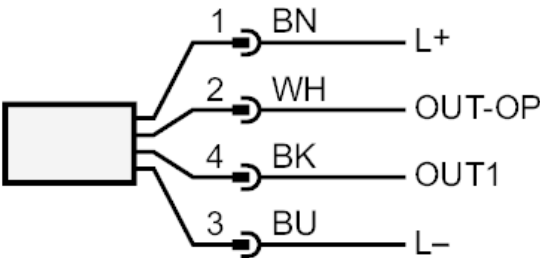
Mechanical data		
Weight	[g]	329
Dimensions	[mm]	Ø 30 / L = 255
Material	stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK; PEI; FKM	
Materials (wetted parts)	stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti); PEEK surface characteristics: Ra < 0,8 µm / Rz = 4 µm; FKM	
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.	

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