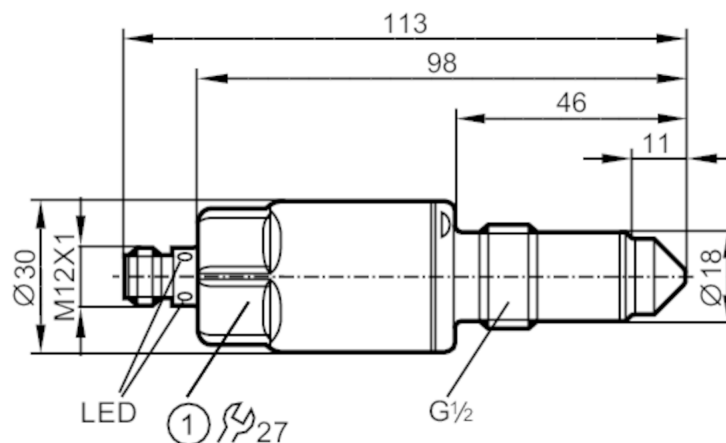


LMT191



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

LMACE-A12E-QPKG-2/US



1 Tightening torque 20...25 Nm



Application

Media		Liquids
Recommended media		water; hydrous media; oils; oil-based media
Cannot be used for		See the operating instructions, chapter "Function and features".
Probe length	[mm]	11
Tank pressure	[bar]	-1...40; (applications subject to the German Federal Water Act : -0,5...10 bar)
oil		
Medium temperature	[°C]	-40...100; (applications subject to the German Federal Water Act 0...100 °C)
Medium temperature short time	[°C]	-40...150; (1 h; applications subject to the German Federal Water Act : 0...100 °C)
water		
Medium temperature	[°C]	-40...85; (applications subject to the German Federal Water Act : 0...85 °C)
Medium temperature short time	[°C]	-40...150; (1 h; applications subject to the German Federal Water Act : 0...100 °C)

Electrical data

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



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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	pulsed	
Overload protection	yes	
Measuring/setting range		
Factory setting	hydrous 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	0x0001C1	
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]	-40...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
	DIN EN 61000-6-3	closed 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]	223.21	
UL approval	UL Approval no.	H001

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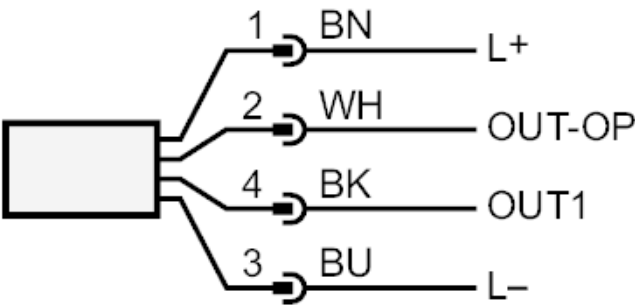
Mechanical data		
Weight	[g]	184.6
Materials	stainless steel (1.4404 / 316L); PEEK; PEI; FKM	
Materials (wetted parts)	PEEK	
Process connection	G 1/2 external thread	
Surface characteristics Ra/Rz of the wetted parts	< 0.8	
Displays / operating elements		
Display	switching status	LEDs, yellow
	operating status	LEDs, green
Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection



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