LMT192
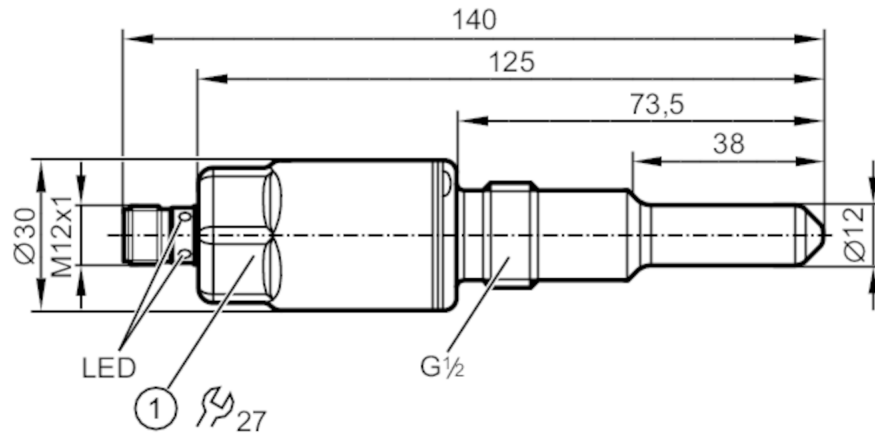
Level sensor for limit detection with overspill protection (German Federal Water Act)

LMCCE-A12E-QPKG-2/US

1   Tightening torque 20...25 Nm

CE c(UL)us LISTED IO-Link WHG

Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2
Factory setting	hydrous media
Process connection	G 1/2 external thread

Application		
Special feature		Gold-plated contacts
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]	38
Tank pressure	[bar]	-1...40; (applications subject to the German Federal Water Act : -0,5...10 bar)
Oil		
Medium temperature	[°C]	-25...100; (applications subject to the German Federal Water Act 0...100 °C)
Medium temperature short time	[°C]	-25...150; (1 h; applications subject to the German Federal Water Act : 0...100 °C)
Water		
Medium temperature	[°C]	-25...85; (applications subject to the German Federal Water Act : 0...85 °C)
Medium temperature short time	[°C]	-25...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

Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 2

LMT192

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

LMCCE-A12E-QPKG-2/US

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

Response 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
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]	-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
	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]	222.77	
UL approval	UL Approval no.	H001

LMT192

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

LMCCE-A12E-QPKG-2/US

Mechanical data	
Weight [g]	249.5
Dimensions [mm]	Ø 30 / L = 125
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

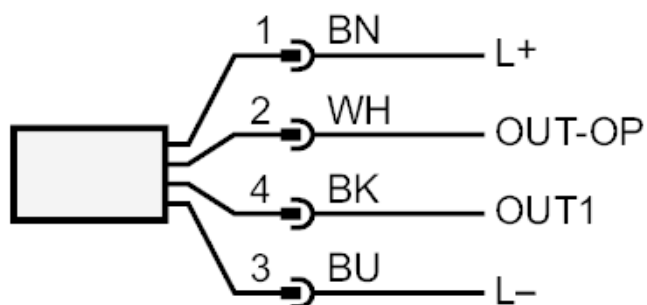| Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated

LMT192

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

LMCCE-A12E-QPKG-2/US

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