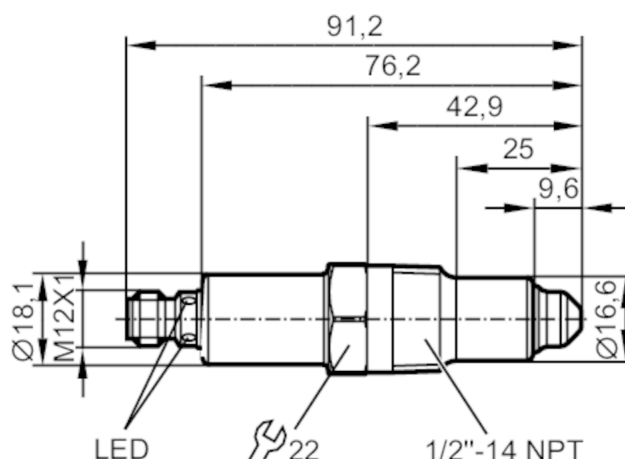


LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US



Application

Media	water; hydrous media; oils; oil-based media; coolants; powder
Cannot be used for	See the operating instructions, chapter "Function and features".
Medium temperature [°C]	-25...100
Probe length [mm]	25
Tank pressure [bar]	-1...40
oil	
Medium temperature [°C]	-25...100

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 35
Protection class	III
Reverse polarity protection	yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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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]	50; (100 (...60 °C))
Short-circuit protection	yes
Type of short-circuit protection	thermal, pulsed
Overload protection	yes

LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US

Measuring/setting range		
Factory setting	oils; oil-based 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	0x0002A3	
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis	
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]	-25...85
Storage temperature	[°C]	-40...85
Protection	IP 68; IP 69K; (7 days / 1 m water depth / 0.1 bar: IP 68)	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	: closed tanks
	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]	534
UL approval	UL Approval no.	H005
Mechanical data		
Weight	[g]	115
Dimensions	[mm]	Ø 18.11 / L = 76.2
Materials	stainless steel (1.4404 / 316L); PEEK; PEI; FKM	
Materials (wetted parts)	stainless steel (1.4404 / 316L); PEEK; FKM	
Process connection	1/2" NPT	
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		

LMC510

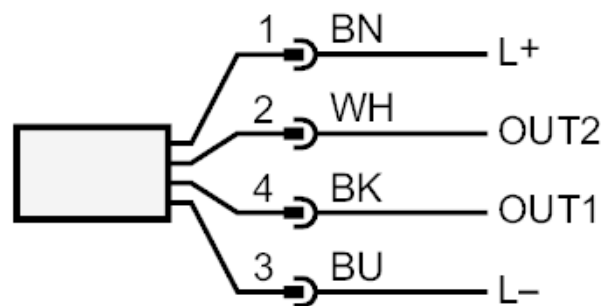


Sensor for point level detection

LMFCE-N12E-QSKG-1/US



Connection



OUT1: switching output IO-Link

OUT2: switching output

colours to DIN EN 60947-5-2

Core colours :

BK = black

BN = brown

BU = blue

WH = white