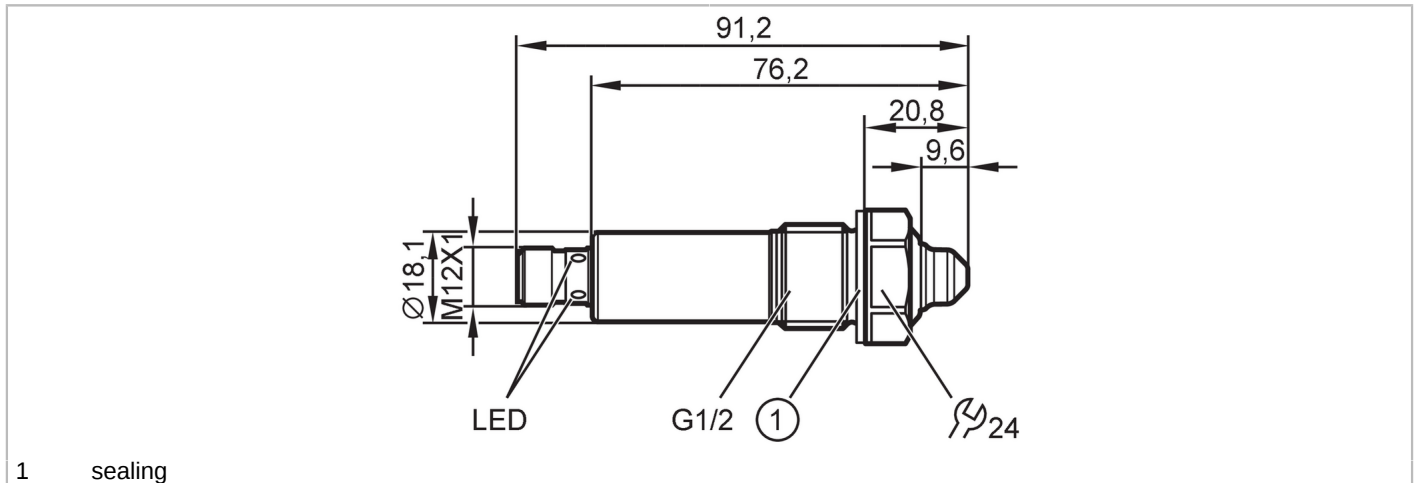


# LMC410



## Sensor for point level detection

LMGCE-C12E-QSKG-1/US



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2
Factory setting	oils; oil-based media
Process connection	G 1/2 external thread
Application	
Special feature	gold-plated contacts
Media	water; water-based 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]	9.6
Tank pressure	-1...40 bar   -0.1...4 MPa
MAWP (for applications according to CRN) [bar]	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
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 / closed; (configurable)
Max. voltage drop switching output DC [V]	2.5

# LMC410



## Sensor for point level detection

LMGCE-C12E-QSKG-1/US

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

### Measuring/setting range

Factory setting	oils; oil-based media
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### Reaction times

Response time [s]	< 0.5
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### Interfaces

Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
	Function	Device diagnosis
SIO mode	yes	
Required master port class	A	
Process data analog	1	
Process data binary	2	
Min. process cycle time [ms]	3.2	
Supported DeviceIDs	<b>Type of operation</b>	<b>DeviceID</b>
	default	675

### Operating conditions

Ambient temperature [°C]	-25...85
Note on ambient temperature	for installation in probe observe the temperature in the pipe, see installation instructions
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 number	H004

### Mechanical data

Weight [g]	128.5
Dimensions [mm]	Ø 18.1 / L = 76.2
Material	stainless steel (1.4404 / 316L); PEEK; PEI; FKM
Materials (wetted parts)	stainless steel (1.4404 / 316L); PEEK; FKM
Process connection	G 1/2 external thread

# LMC410



## Sensor for point level detection

LMGCE-C12E-QSKG-1/US

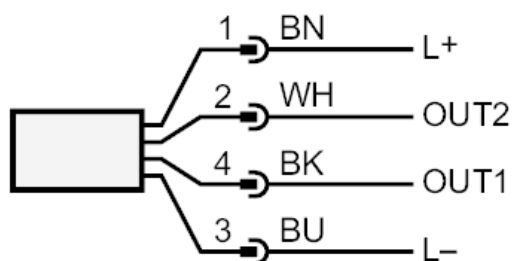
Displays / operating elements		
Display	Switching status	LED, yellow
	operating status	LED, green
Accessories		
Items supplied	sealing 1 x (26,5 x 21,3 x 1,5 mm), Centellen	
Remarks		
Pack quantity	1 pcs.	

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection



OUT1: Switching output IO-Link  
OUT2: Switching output  
Colors to DIN EN 60947-5-2  
Core colors :

BK = black  
BN = brown  
BU = blue  
WH = white