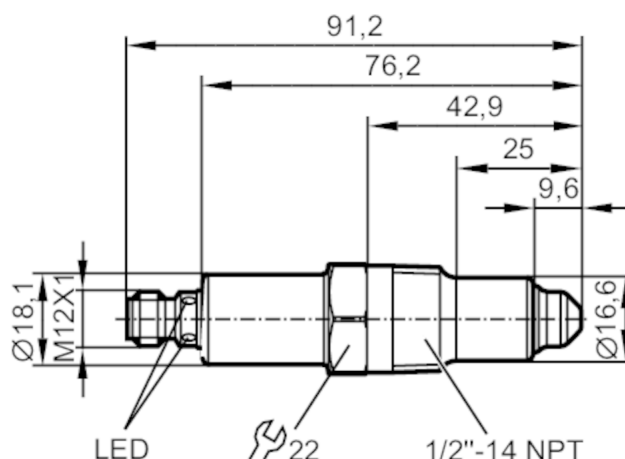


LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Factory setting	oils; oil-based media
Process connection	1/2" NPT

Application

System	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]	25
Tank pressure	-1...40 bar
MAWP (for applications according to CRN) [bar]	-0.1...4 MPa
	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)

LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US

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

Measuring/setting range

Factory setting	oils; oil-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	
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	Type of operation	DeviceID
	default	675

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 number	H005

Mechanical data

Weight	[g]	115
Dimensions	[mm]	Ø 18.11 / L = 76.2
Material	stainless steel (1.4404 / 316L); PEEK; PEI; FKM	
Materials (wetted parts)	stainless steel (1.4404 / 316L); PEEK; FKM	
Process connection	1/2" NPT	

LMC510



Sensor for point level detection

LMFCE-N12E-QSKG-1/US

Displays / operating elements

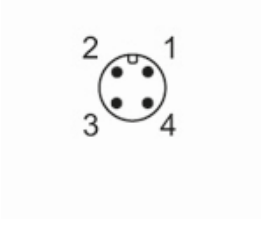
Display	Switching status	LED, yellow
	operating status	LED, green

Remarks

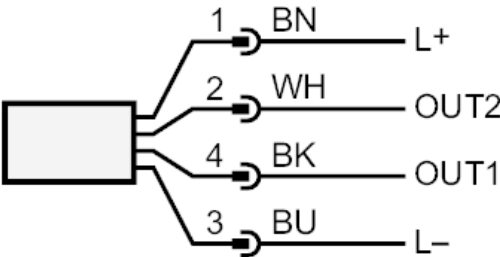
Pack quantity	1 pcs.
---------------	--------

Electrical connection

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



Connection



OUT1: Switching output IO-Link
OUT2: Switching output
Colors to DIN EN 60947-5-2
Core colors :
BK = black
BN = brown
BU = blue
WH = white