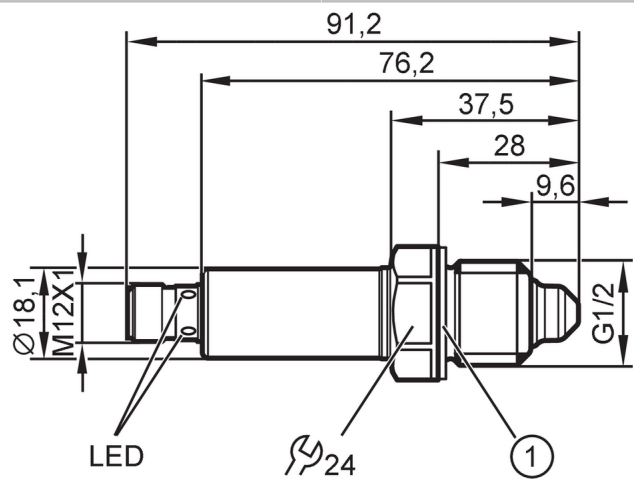


LMC100



Sensor for point level detection

LMFCE-B12E-QSKG-0/US



1 sealing



Product characteristics		
Number of inputs and outputs	Number of digital outputs: 2	
Factory setting	water; water-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]	28	
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)	

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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	water; water-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	Type of operation	DeviceID
	default	674

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	H003

Mechanical data

Weight	[g]	117.45
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	

LMC100



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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
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Remarks

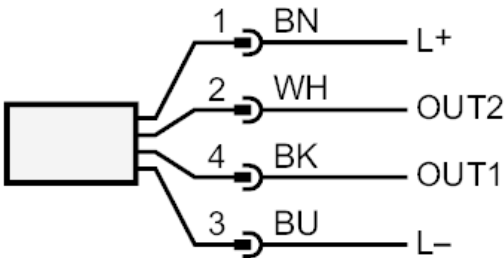
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, 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