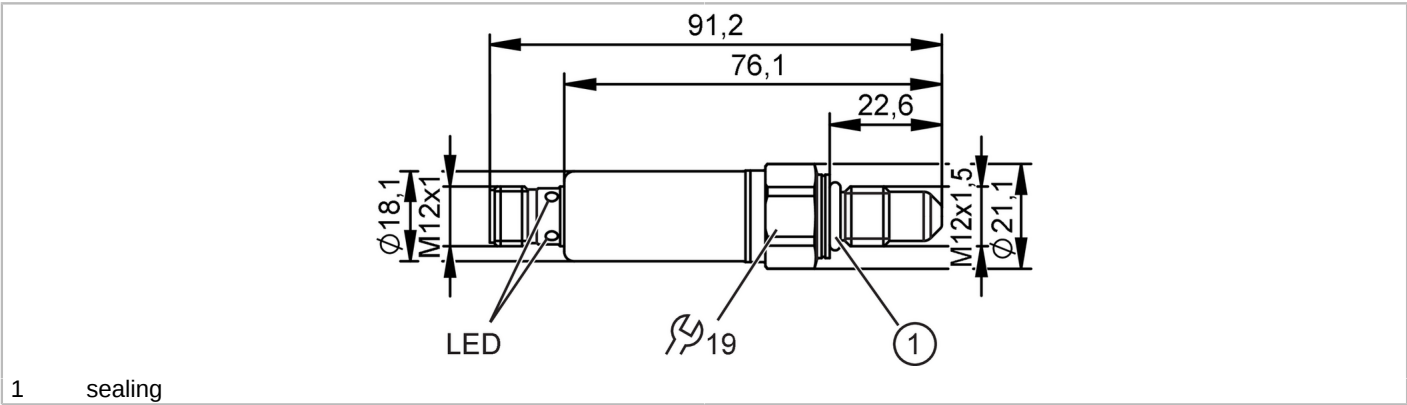


LMC840



Sensor for point level detection

LMFCE-M02E-QSKG-1/US



Product characteristics		
Number of inputs and outputs	Number of digital outputs: 2	
Factory setting	water; water-based media	
Process connection	M12 x 1,5 external thread ISO 6149-3	
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	
Pressure rating	40 bar	4 MPa
Vacuum resistance	-1000 mbar	-0.1 MPa
Probe length [mm]	22.6	
MAWP (for applications according to CRN) [bar]	40	
Oil		
Medium temperature [°C]	-25...100	
Electrical data		
Operating voltage [V]	10.8...30 DC; (IO-Link: 18...30 DC) ; (see interruptions in the supply voltage under remarks)	
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	NPN/PNP	
Number of digital outputs	2	
Output function	normally open / closed; (configurable)	
Max. voltage drop switching output DC [V]	2.5	

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Permanent current rating of switching output DC [mA]	50; (100 (...60 °C))
Factory setting	Electrical design NPN schaltend
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	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
SIO mode	no	
Required master port class	A	
Supported DeviceIDs	Type of operation	DeviceID
	default	1960

Operating conditions

Ambient temperature [°C]	-25...85
Storage temperature [°C]	-40...85
Protection	IP 68; IP 69; (7 days / 3 m water depth / 0.3 bar: IP 68)

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	: in a closed metal tank
	DIN EN 61000-6-4	: in plastic or open metal 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]		528
UL approval	Ta	-25...50 °C
	Enclosure type	Type 1
	UL approval number	H003
	File number UL	E174191

Mechanical data

Weight [g]	83
Dimensions [mm]	Ø 18.1 / L = 76.2
Material	housing: stainless steel (1.4404 / 316L); probe: PEEK; plug: PEI; sealing: FKM; EPDM
Materials (wetted parts)	housing: stainless steel (1.4404 / 316L); probe: PEEK; sealing: EPDM
Process connection	M12 x 1,5 external thread ISO 6149-3

Displays / operating elements

Display	Switching status	LED, yellow
	operating status	LED, green

Remarks

Remarks	supply voltage interruption - At supply voltages below 18 V, interruptions in the supply voltage of less than 1 ms can cause the device to reset
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Pack quantity

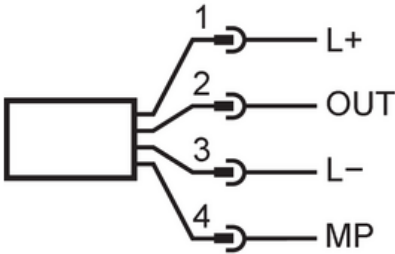
1 pcs.

Electrical connection

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



Connection



1	L+	
2	OUT	DO2 (NC)
3	L-	
4	MP	DO1 (NO), IO-Link

DO: digital output; MP: multi-function connection; NC: normally closed; NO: normally open