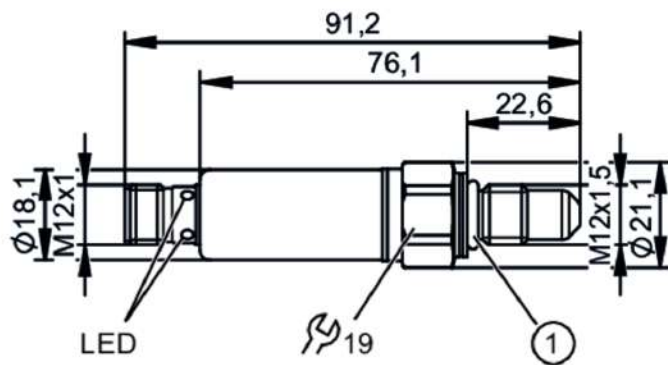


LMC840



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; hydrous media
Process connection	M12 x 1,5 external thread ISO 6149-3

Application

Special feature	Gold-plated contacts
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
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]	18...30 DC; (see operating instructions)
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

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Sensor for point level detection

LMFCE-M02E-QSKG-1/US

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; hydrous media
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Response 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 type	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	UL approval no.	H003
	File number UL	E174191

Mechanical data

Weight [g]	85.596
Dimensions [mm]	Ø 18.1 / L = 76.2
Materials	housing: stainless steel (316L/1.4404); probe: PEEK; plug: PEI; Sealing: FKM; EPDM
Materials (wetted parts)	housing: stainless steel (316L/1.4404); 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

Pack quantity	1 pcs.
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LMC840



Sensor for point level detection

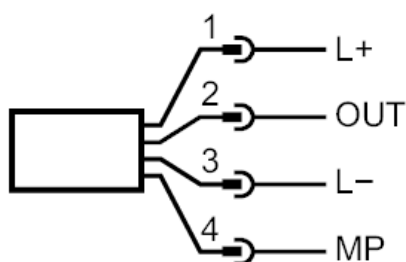
LMFCE-M02E-QSKG-1/US

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