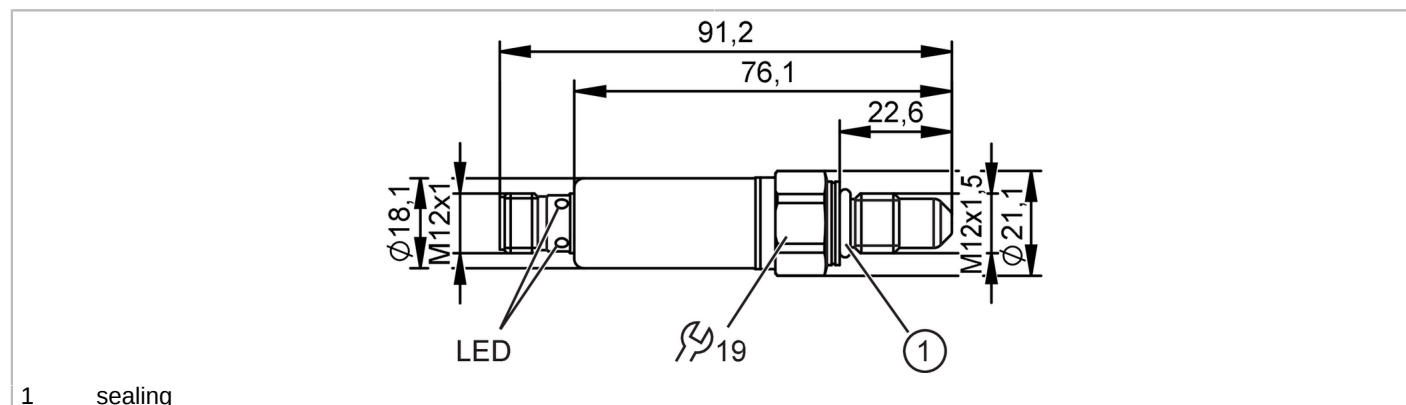


LMC840



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

Special feature	gold-plated contacts
Media	water; water-based media; 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))
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

LMC840



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
Short-circuit protection	yes
Type of short-circuit protection	thermal, pulsed
Overload protection	yes

Measuring/setting range

Factory setting	water; water-based media
-----------------	--------------------------

Reaction times

Response time [s]	< 0.5
-------------------	-------

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 default
	DeviceID 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

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

LMC840



Sensor for point level detection

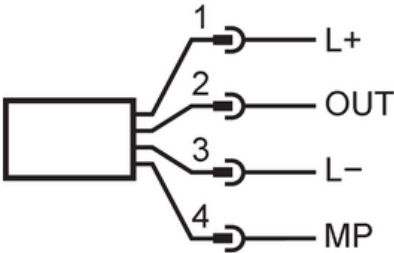
LMFCE-M02E-QSKG-1/US

Electrical connection

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