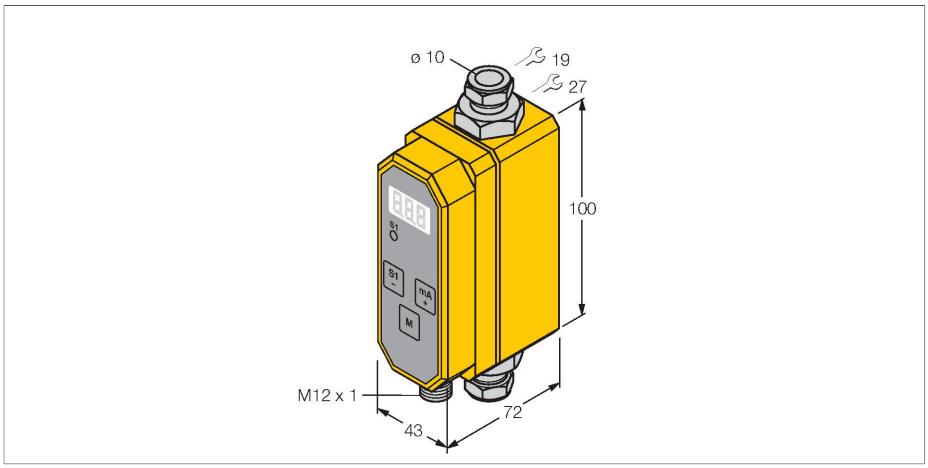
FCMI-10D08DYA4P-LIUP8X-H1141
Flow Rate Measurement – Inline Sensor with Integrated Processor



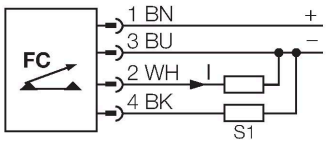
Technical data

ID	6870603
Type	FCMI-10D08DYA4P-LIUP8X-H1141
Mounting conditions	Inline sensor
Application area	liquids
Flow operating range	0…40 l/min
Stand-by time	6…10 s
Switch-on time	0.5…8 s
Medium temperature	5…+60 °C
Ambient temperature	0…+60 °C
Electrical data	
Operating voltage	21.6…26.4 VDC
Current consumption	≤ 100 mA
Output function	PNP/Analog output, NO/NC programmable
Rated operational current	0.2 A
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4…20 mA
Load	200…500 Ω
Protection class	IP65
MTTF	94 years acc. to SN 29500 (Ed. 99) 40 °C
Mechanical data	
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless-steel/Plastic, 1.4571 (AISI 316Ti)/PVDF

Features

- Programmable flow meter for electrically conductive liquids
- Magnetic-inductive principle
- Display and monitoring of flow
- 3-digit display in [l/min]
- Measuring accuracy 0…5l/min: <+/0.1 l/min
- Measuring accuracy 5…40 l/min: < +/-2% of minimum value
- Minimum conductivity > 10 µS/cm (water > 15 µS/cm)
- Prog. via pushbutton, code-protected
- 4-wire DC, 21…26 VDC
- NO/NC prog., PNP output
- Linear analog output 4…20 mA
- Flow range for analog output freely adjustable
- Plug-in device, M12 x 1

Wiring diagram



Functional principle

The magnetic-inductive inline flow meter FCMI by TURCK is based on the Faraday principle. A measuring tube permeating magnetic field deviates the free charge carriers in the targeted medium to the tube walls. Voltage is created by electrical separation and picked up by two laterally mounted electrodes. The voltage quantity depends on the flow rate i.e.flow if the magnetic field is known. Thus the FCMI flow meter monitor reliably and wear-free the flow of various different liquid media which feature a determined minimum conductivity.

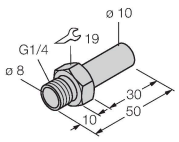
Technical data

Electrical connection	Connector, M12 × 1
Pressure resistance	10 bar
Process connection	Compression fittings for pipes Ø 10 × 1 (EN10305-1)
Programming options	access code, switch-point, N.C./N.O, hysteresis, switch-on/switch-off delay,signal filter
Tests/approvals	

Accessories

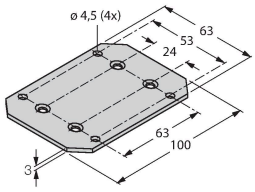
FTCI-G1/4A4-D10/L050	6870151

Adapter for G1/4 thread made of stainless steel A4 (1.4571/AISI 316Ti)



FTCI-MP01AL	6870040

Mounting plate for FTCI flow meter for front mounting



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