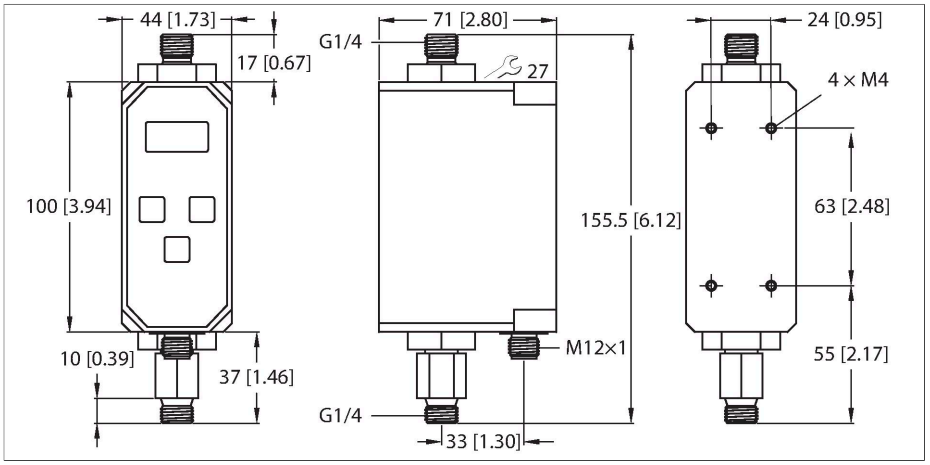
FTCI-G1/4D06A4P-2LIX-H1141
Flow Rate Monitoring – Inline Sensor with Integrated Processor





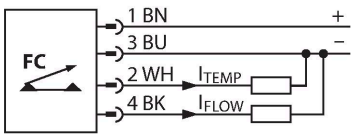
Technical data

ID	100004083
Type	FTCI-G1/4D06A4P-2LIX-H1141
Mounting	**Inline sensor**
Application area	Flow rate/temperature monitoring of water
Flow operating range	0.01…2 l/min
Stand-by time	6…10 s
Temperature gradient	≤ 400 K/min
Medium temperature	0…+60 °C
Ambient temperature	0…+60 °C
Electrical data	
Operating voltage U_B	21.6…26.4 VDC
Current consumption	≤ 100 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4…20 mA
Load	200…500 Ω
Protection class	IP65
MTTF	217 years acc. to SN 29500 (Ed. 99) 40 °C
Mechanical data	
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)

Features

- Compact inline flow sensor
- Calorimetric principle
- Monitoring of flow rate
- Monitoring of the medium temperature
- Parameterization via pushbutton
- Protected by software code
- Output flow 4…20 mA, linear
- Output temperature 4…20 mA, linear
- DC 4-wire, 21.6…26.4 VDC
- 4…20 mA analog output
- Plug-in device, M12 x 1

Wiring diagram



Functional principle

The FTCIs from TURCK monitor flow rates of liquids passing through the sensor reliably and wear-free. These sensors are designed for flow rate monitoring.
Based on the thermodynamic principle, electrical energy is converted into heat energy. The heat generated in the probe is conducted away by the flowing medium. The dissipated heat quantity is used as a direct measurement of the medium's flow speed. The integrated microprocessor evaluates the data and calculates the flow rate. Based on

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Technical data

Electrical connection	Connector, M12 x 1
Process Pressure	20 bar
Process connection	G 1/4"
Flow state display	7-segment display, switching status LED (yellow)
Indication: Setpoint reached	Yellow
Programming options	Flow rate correction, mean value, access code
Tests/approvals	

the applied principle, the media temperature is also indicated to the user.

In addition to the standardized electrical output signals for industrial applications, the TURCK flow meters also indicate the current flow rate on their 3-digit, 7-segment display.

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