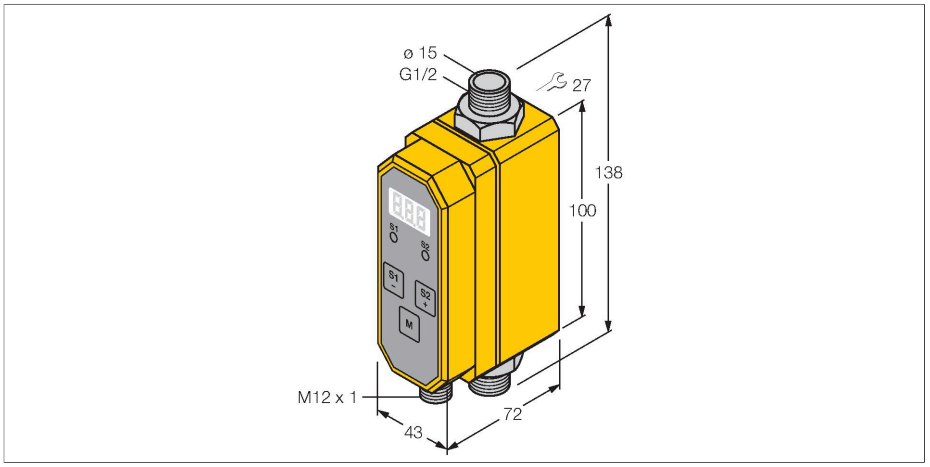
FTCI-G1/2D15A4P-2UP8X-H1141/D228
Flow Rate Monitoring – Inline Sensor with Integrated Processor



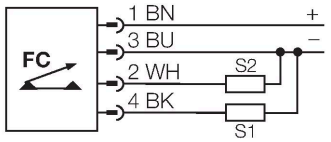
Technical data

ID	6870137
Type	FTCI-G1/2D15A4P-2UP8X-H1141/D228
Special version	D228 Corresponds to:FTCI without temperature monitoring; with G1/2 process connection rather than compression fitting ; only suitable for use in water (not glycol); 2–20 l/min
Mounting	**Inline sensor**
Application area	flow monitoring of water
Flow operating range	2…20 l/min
Stand-by time	6…10 s
Temperature gradient	≤ 400 K/min
Medium temperature	0…+70 °C
Ambient temperature	0…+60 °C
Electrical data	
Operating voltage U_B	21.6…26.4 VDC
Current consumption	≤ 100 mA
Output function	2 × PNP, NO/NC programmable
Rated operational current	0.2 A
Short-circuit protection	yes
Reverse polarity protection	yes
Protection class	IP65
Mechanical data	
Design	Inline
Housing material	Plastic, PBT

Features

- Flow meters for water
- Calorimetric measuring principle
- 2 switchpoints /outputs flow
- 3-digit display [l/min]
- Programming via button
- Protected via access code 0…255
- Switch ON/OFF delay 0…50 s
- DC 4-wire
- PNP outputs
- NO/NC programmable

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 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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Technical data

Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Process Pressure	20 bar
Process connection	G 1/2"
Flow state display	7-segment display, switching status LED (yellow)
Programming options	access code; switch-point flow rate; N.C./ N.O; switch-on/switch-off delay; signal filter; reference compensation
Tests/approvals	

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