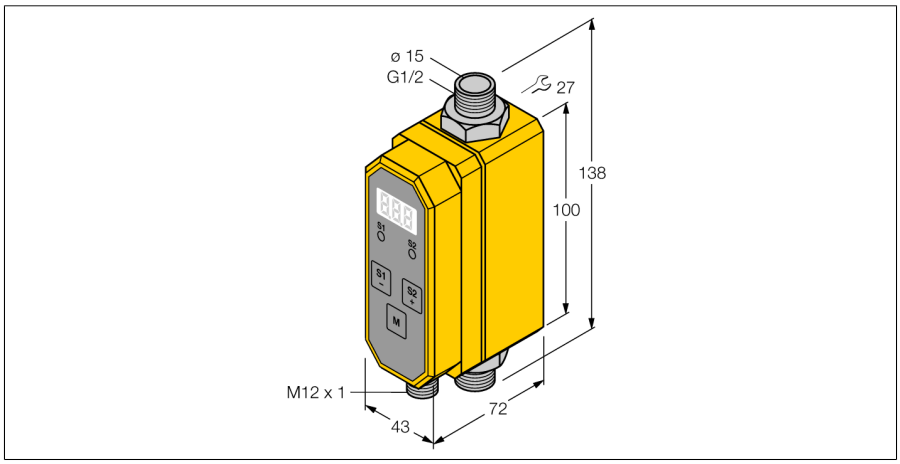
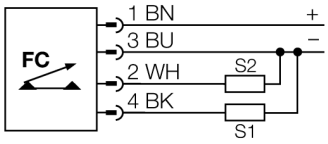
Flow Rate Measurement
Inline sensor with integrated processor
FTCI-G1/2D15A4P-2UP8X-H1141/D228



Type designation	FTCI-G1/2D15A4P-2UP8X-H1141/D228
Ident no.	6870137
Mounting conditions	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
Operating voltage	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
Housing material	Plastic, PBT
Sensor material	Stainless steel, AISI 316Ti
Max. tightening torque housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Pressure resistance	20 bar
Process connection	G ½"
Programming options	access code; switch-point flow rate; N.C./N.O; switch-on/switch-off delay; signal filter; reference compensation

- **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 high-precision flow rate measurement rather than simple flow monitoring tasks.

Based on the thermodynamic principle, electrical energy is converted in heat energy. The heat generated in the probe is conducted away by the flowing medium. The dissipated heat quantity is used as a direct measure for the medium's flow speed. The integrated microprocessor evaluates the data and calculates the flow rate. Based on the applied principle, the user is aso indicated the media temperature.

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

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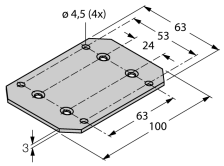
Accessories

Type code	Ident no.	Description	
FTCI-MP01AL	6870040	aluminium mounting panel for front mounting	

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