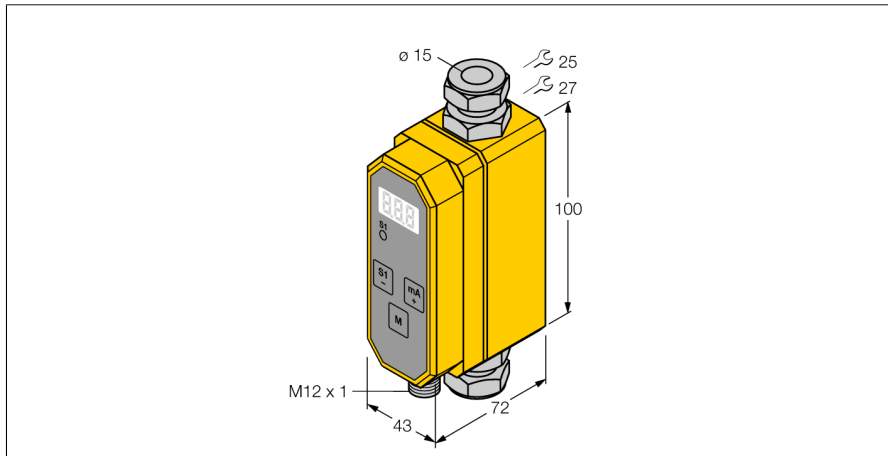


Flow Rate Measurement

Inline sensor with integrated processor

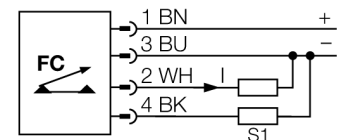
FTCI-15D15A4P-LI-UP8X-H1141



- Compact inline flow sensor
- Calorimetric principle
- Monitoring of flow rate
- Monitoring of the medium temperature
- For water/glycol mix
- Parametrized via button
- Protected by software code
- DC 4-wire, 21.6...26.4 VDC
- NO/NC prog., PNP output
- 4...20 mA analog output
- Analog output provides a current signal proportional to the flow rate for the overall operating range
- Plug-in device, M12 x 1

Type designation	FTCI-15D15A4P-LI-UP8X-H1141
Ident. no.	6870044
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Type	FTCI-15D15A4P-LI-UP8X-H1141
Mounting conditions	Inline sensor
Application area	flow rate/temperature monitoring of water or water/glycol mix
Flow operating range	2...20 l/min
Stand-by time	6...10 s
Temperature gradient	≤ 400 K/min
Medium temperature	-10...+90 °C
Ambient temperature	0...+60 °C
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
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless steel, V4A (1.4571)
Electrical connection	Connectors, M12 x 1
Pressure resistance	20 bar
Process connection	Compression fittings for pipes Ø 15 x 1.5 (EN10305-1)
Flow state display	7-segment display, switching status LED (yellow)

Wiring Diagram



Functional principle

The FTCTs 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 also 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.

Flow Rate Measurement
Inline sensor with integrated processor
FTCI-15D15A4P-LI-UP8X-H1141

Accessories

Type code	Ident no.	Description	Dimension drawing
FTCI-MP01AL	6870040	Mounting plate for FTCL flow meter for front mounting	