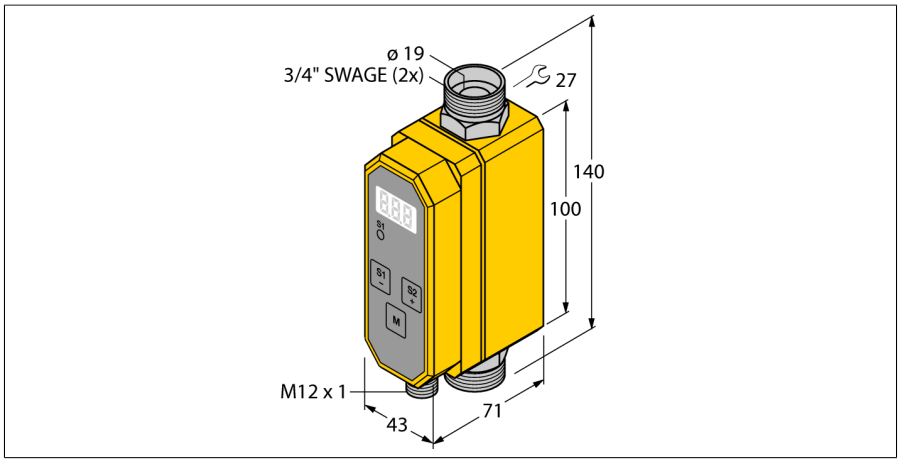
Compact Inline Flow Meter
Flow Rate Measurement
Relay Output 24 VDC NO
FTCI-3/4D19A4P-2ARX-H1160



- Calorimetric principle
- Monitoring of flow rate
- Monitoring of the medium temperature
- For water/glycol mix
- Parametrized via button
- Protected by software code
- Hysteresis Flow 0.4 … 1.9 l/min
- Hysteresis Temp 1…10 °C
- Temperature monitoring, -10…95 °C
- Switch ON/OFF delay 0…50 s
- 2 relay switching outputs
- Switching outputs 24 VDC NO
- Switchpoints freely adjustable

ID	6870901
Type	FTCI-3/4D19A4P-2ARX-H1160

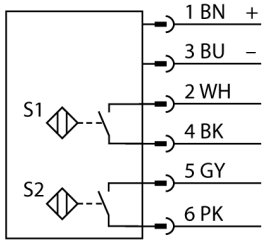
Mounting conditions	Inline sensor
Application area	flow rate/temperature monitoring of water or water/glycol mix
Flow operating range	10…100 l/min
Temperature gradient	≤ 400 K/min
Medium temperature	-10…+95 °C
Ambient temperature	-20…+60 °C

Electrical data	
Operating voltage U_B	21.6…26.4 VDC
Current consumption	≤ 100 mA
Output function	Relay output, NO contact
Short-circuit protection	no
AC switching current	0.5 A
DC switching current	0.5 A
AC switching voltage	36 VAC
DC switching voltage	30 VDC
Protection class	IP54

Mechanical data	
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless steel, 1.4401 (AISI 316)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Pressure resistance	9 bar
Process connection	3/4″ Swagelok

Tests/approvals

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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