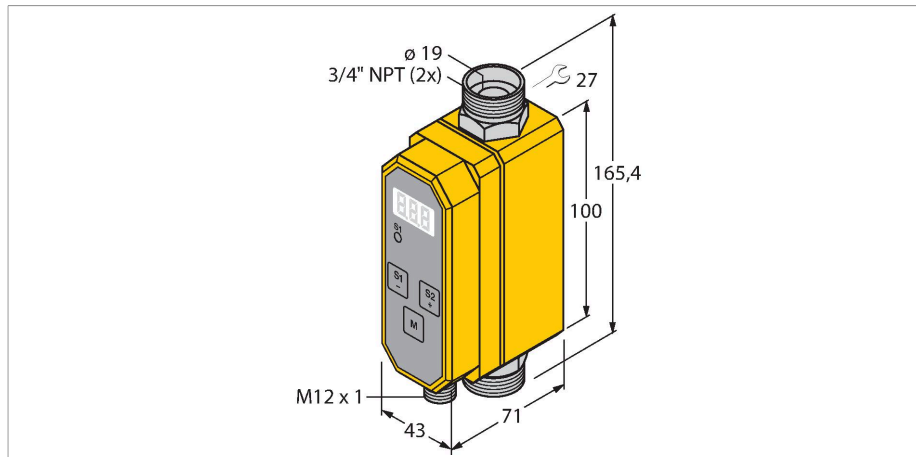


FTCI-N3/4D19A4P-2ARX-H1160

Flow Rate Measurement – Inline Sensor with Integrated Processor

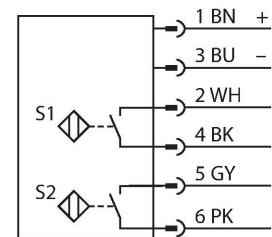
Relay Output 24 VDC NO



Features

- 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
- Operating range 10...100 l/min
- 2 relay switching outputs
- Switching outputs 24 VDC NO
- Switchpoints freely adjustable

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 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.

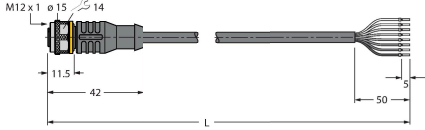
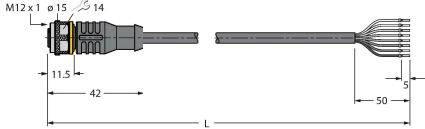
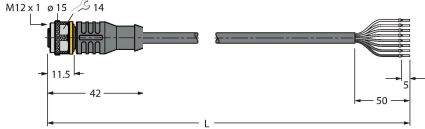
Technical data

Ident. no.	6870053
Type	FTCI-N3/4D19A4P-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
Stand-by time	6...10 s
Temperature gradient	≤ 400 K/min
Medium temperature	-10...+95 °C
Ambient temperature	0...+60 °C
Operating voltage	21.6...26.4 VDC
Current consumption	≤ 100 mA
Output function	Relay output, NO contact
Rated operational current	2 A
Short-circuit protection	no
AC switching voltage	36 VAC
DC switching voltage	30 VDC
Max. AC switching capacity	500 VA
Max. DC switching capacity	50 W
Protection class	IP54
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connectors, M12 × 1

Technical data

Pressure resistance	10 bar
Process connection	3/4" NPT
Flow state display	7-segment display, status LED (yellow)

Accessories

Dimension drawing	Type	Ident. no.	
	RKC8T-2/TEL	6625130	Connection cable, M12 female, straight, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	RKC8T-5/TEL	6625131	Connection cable, female M12, straight, 8-pin, cable length: 5 m; jacket material: PVC, jacket color: black, cULus approved, RoHS conform, protection class IP67
	RKC8T-10/TEL	6625132	Connection cable, female M12, straight, 8-pin, cable length: 10m; jacket material: PVC, jacket color: black, cULus approved, RoHS conform, protection class IP67