

FCI-1/4TCD04A4P-LIX-H1141

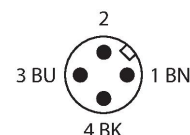
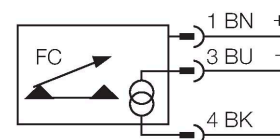
Flow Monitoring – Inline Sensor with Integrated Processor

**Kein Maßbild vorhanden/
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Features

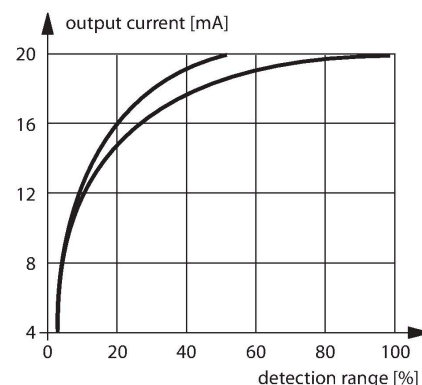
- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- DC 3-wire, 21.6...26.4 VDC
- 4...20 mA analog output
- Connector device, M12 × 1

Wiring diagram



Functional principle

The function of the inline flow sensors is based on the thermo-dynamic principle. Heat is generated in a measuring tube and absorbed by the flowing medium. The transported heat loss is thus a measure of the flow speed. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid media. A low pressure drop and fast response to flow rate variations are the outstanding features of these devices.



Technical data

ID	6870824
Type	FCI-1/4TCD04A4P-LIX-H1141
Mounting	Inline sensor
Flow operating range	0.001...0.2 l/min
Stand-by time	5...20 s
Switch-on time	0.5...3 s
Setting time	0.5...3 s
Switch-off time	0.5...3 s
Temperature gradient	≤ 400 K/min
Medium temperature	0...+60 °C
Ambient temperature	0...+60 °C
Electrical data	
Operating voltage U_b	21.6...26.4 VDC
Current consumption	≤ 50 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4...20 mA
Load	200...500 Ω
Protection class	IP67
Mechanical data	
Design	Inline
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)

Technical data

Electrical connection	Connector, M12 × 1
Process Pressure	1 bar
Process connection	¼" tube connection
Flow state display	LED chain, red (1x), green (5x)
LED display	red = 4 mA 1x green > 4 mA 2x green > 8 mA 3x green > 12 mA 4x green > 16 mA 5x green = 20 mA