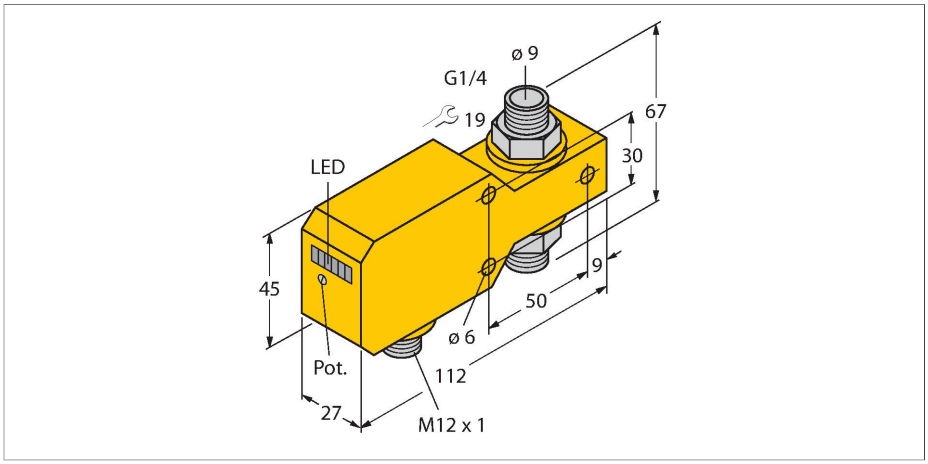
FCI-D10A4P-LIX-H1141/A
Flow Monitoring – Inline Sensor with Integrated Processor



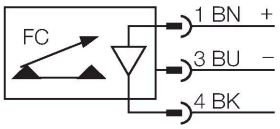
Technical data

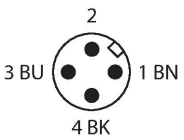
Ident. no.	6870639
Type	FCI-D10A4P-LIX-H1141/A
Mounting	Inline sensor
Air Operating Range	0.5…40 m/s
Stand-by time	10…30s
Setting time	10…20s
Temperature gradient	≤ 20 K/min
Medium temperature	0…+80 °C
Ambient temperature	0…+60 °C
Operating voltage	21.6…26.4 VDC
Current consumption	≤ 50 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4…20 mA
Load	200…500 Ω
Protection class	IP67
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless steel, V4A (1.4571)
Max. tightening torque housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Process Pressure	20 bar
Process connection	G ¼"

Features

- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- Operating range 0.5…40 m/s
- DC 3-wire, 21.6…26.4 VDC
- 4…20 mA analog output
- Connector device, M12 × 1

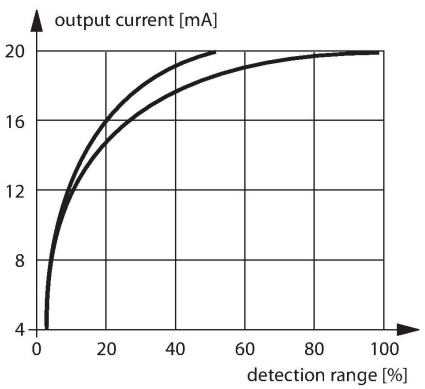
Wiring diagram





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

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