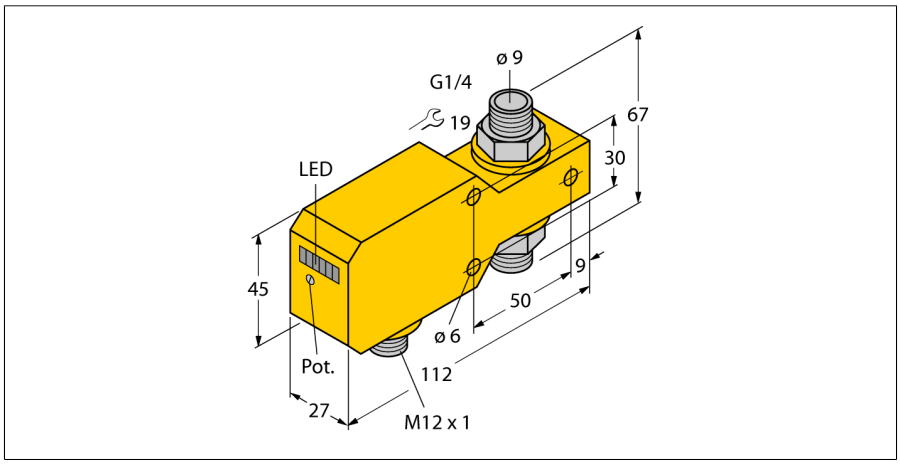
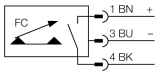
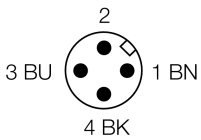
Flow sensor
Inline sensor with integrated processor
FCI-D10A4P-AP8X-H1141/A



- **Flow sensor for gaseous media**
- **Calorimetric principle**
- **Adjustment via potentiometer**
- **LED band**
- **Operating range 0.5…40 m/s**
- **3-wire DC, 21…26 VDC**
- **NO contact, PNP output**
- **Plug-in device, M12 x 1**

Wiring diagram





Type code	FCI-D10A4P-AP8X-H1141/A
Ident no.	6870646
Air operating range	0.5…40 m/s
Stand-by time	10…30s
Switch-on time	typ. 2 s (1…20 s)
Switch-off time	typ. 2 s (1…20 s)
Temperature gradient	≤ 20 K/min
Medium temperature	- 20…80 °C
Ambient temperature	0…60 °C
Operating voltage	21…26VDC
No-load current I_0	≤ 50 mA
Output function	PNP, NO contact
Rated operational current	0.2 A
Voltage drop at I_e	≤ 1.5 V
Short-circuit protection	yes
Reverse polarity protection	yes
Housing material	plastic, PBT
Sensor material	stainless steel, AISI 316Ti
Max. tightening torque housing nut	100 Nm
Connection	male, M12 x 1
Pressure resistance	20 bar
Process connection	G ¼″
Switching state	LED chain green / yellow / red
Flow state display	LED chain, red (1x), green (5x)
Indication: Drop below setpoint	LED red
Indication: Setpoint reached	LED yellow
Indication: Setpoint exceeded	4 x LEDs green
LED display	red = 4 mA 1 x green > 4 mA 2 x green > 8 mA 3 x green > 12 mA 4 x green > 16 mA 5 x green = 20 mA

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.

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