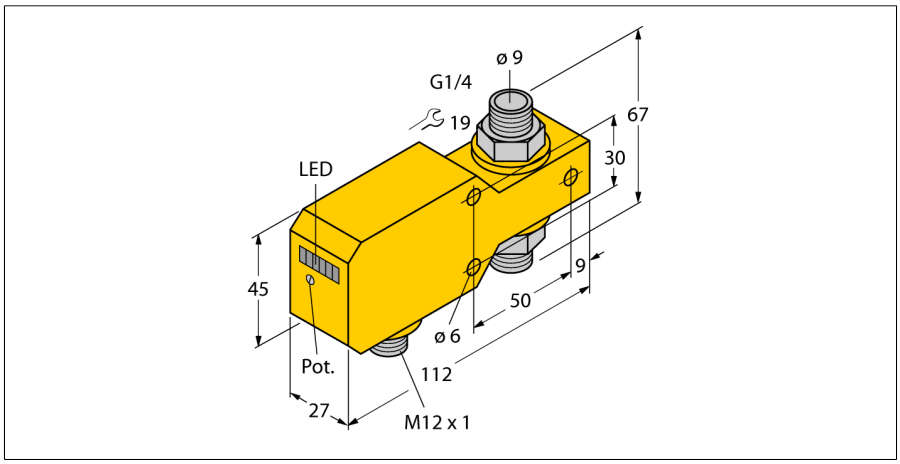
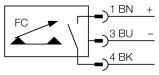
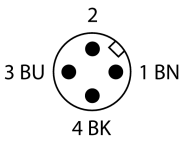
Flow monitoring
Inline sensor with integrated processor
FCI-D10A4P-AP8X-H1141



- **Flow sensor for liquid media**
- **Calorimetric principle**
- **Adjustment via potentiometer**
- **LED band**
- **Operating range 0.1…6 l/min**
- **3-wire DC, 21…26 VDC**
- **NO contact, PNP output**
- **Plug-in device, M12 x 1**

Wiring diagram





Type code	FCI-D10A4P-AP8X-H1141
Ident-No.	6870642
Ident-No (TUSA)	M6870642

Mounting	inline sensor
Flow operating range	0,1…6 l/min.
Stand-by time	5…15 s
Switch-on time	0.5…1 s
Switch-off time	0.5…1 s
Temperature gradient	≤ 400 K/min
Medium temperature	-20…80 °C
Ambient temperature	0…60 °C

Operating voltage	21… 26VDC
Current consumption	≥ 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	30 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
Indication: Drop below setpoint	LED red
Indication: Setpoint reached	LED yellow
Indication: Setpoint exceeded	4 x LEDs green

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.

Edition • 2015-12-02T08:22:08+01:00