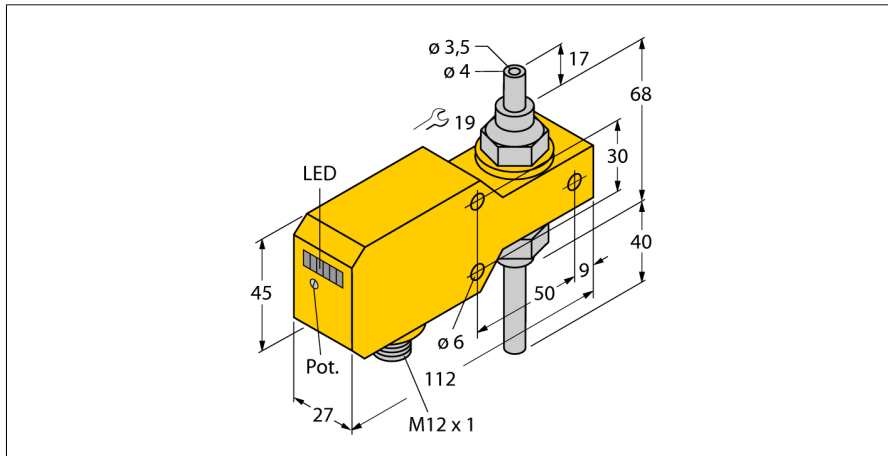
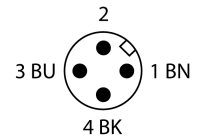
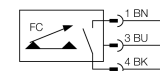


**Flow monitoring**  
**Inline sensor with integrated processor**  
**FCI-TCD04A4P-AP8X-H1141**



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- Operating range 1...200 ml/min
- Mechanical Connection: Barrel, 4 mm
- 3-wire DC, 21...26 VDC
- NO contact, PNP output
- Plug-in device, M12 x 1

**Wiring diagram**



<b>Type code</b>	FCI-TCD04A4P-AP8X-H1141
Ident-No.	6870656
Ident-No (TUSA)	M6870656

<b>Mounting</b>	inline sensor
Flow operating range	0,001...0,2 l/min.
Stand-by time	5...20 s
Switch-on 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

<b>Operating voltage</b>	21... 26VDC
Current consumption	≥ 50 mA
Output function	PNP, NO contact
Rated operational current	0.2 A
Voltage drop at I <sub>e</sub>	≤ 1.5 V
Short-circuit protection	yes
Reverse polarity protection	yes

<b>Housing material</b>	plastic, PBT
Sensor material	stainless steel, AISI 316Ti
Connection	male, M12 x 1
Pressure resistance	1 bar
Process connection	Tube 4 mm

<b>Switching state</b>	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.