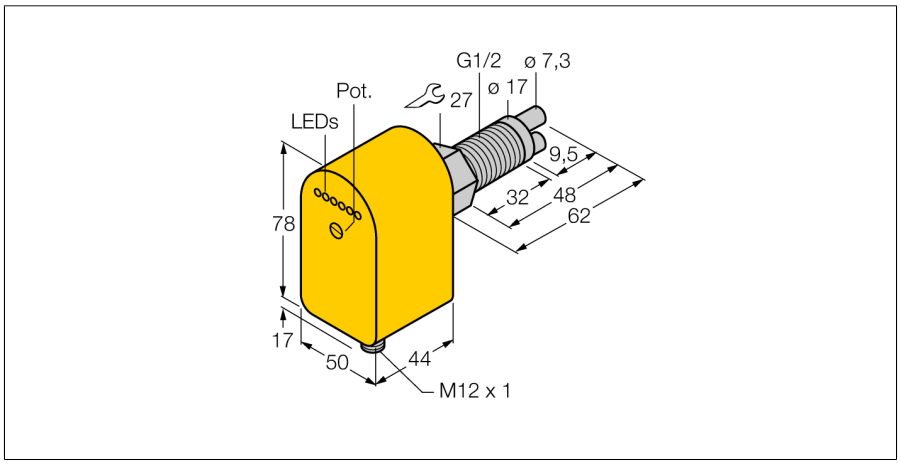
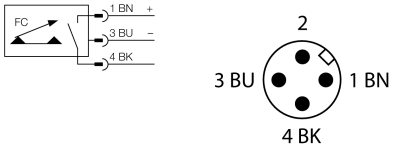
Flow monitoring
Immersion sensor with integrated processor
FCS-GL1/2A2P-AP8X-H1141/A

Industrial Automation



- **Sensor for gaseous media**
- **Calorimetric principle**
- **Adjustments via potentiometer**
- **3-wire DC, 21…26 VDC**
- **NO contact, PNP output**
- **Plug-in device, M12 x 1**

Wiring diagram



Type code	FCS-GL1/2A2P-AP8X-H1141/A
Ident-No.	6870457
Ident-No (TUSA)	M6870457
Mounting	insertion style sensor
Air Operating Range	0.5…30 m/s
Stand-by time	10…90 s
Switch-on time	2…30 s
Switch-off time	5…30 s
Temperature gradient	≤ 20 K/min
Medium temperature	-20…80 °C
Operating voltage	21… 26VDC
Current consumption	≥ 80 mA
Output function	PNP, NO contact
Rated operational current	0.4 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 303
Max. tightening torque housing nut	100 Nm
Connection	male, M12 x 1
Pressure resistance	30 bar
Process connection	G ½″ long
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

Our insertion - flow sensors operate on the principle of thermodynamics. The measuring probe is heated by several °C as against the flow medium. When fluid moves along the probe, the heat generated in the probe is dissipated. The resulting temperature is measured and compared to the medium temperature. The flow status of every medium can be derived from the evaluated temperature difference. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid media.

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