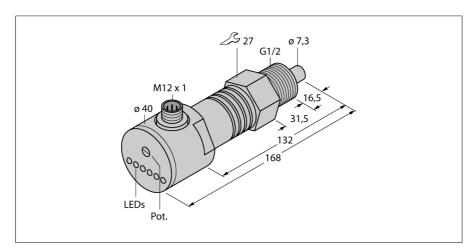
Flow monitoring Immersion sensor with integrated processor FCS-GL1/2A4-AP8X-H1141/D090





Type code Ident no.	FCS-GL1/2A4-AP8X-H1141/D090 6870015
Water Operating Range	1150cm/s
Oil Operating Range	3300 cm/s
Stand-by time	typ. 8 s (215 s)
Switch-on time	typ. 2 s (115 s)
Switch-off time	typ. 2 s (115 s)
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	0100 °C
Ambient temperature	-2080 °C
Operating voltage	19.2 28.8VDC

Housing material	Stainless steel, V4A (1.4571)
Sensor material	stainless steel, AISI 316Ti
Max. tightening torque housing nut	30 Nm
Connection	Flange connector, M12 x 1
Pressure resistance	100 bar
Process connection	G ½" long

Switching state LED chain green / yellow / red Flow state display LED chain

Flow state display
Indication: Drop below setpoint
Indication: Setpoint reached
Indication: Setpoint exceeded
LED yellow
Indication: Setpoint exceeded

4 x LEDs green

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- Temperature range: 0...+100 °C (up to +120 °C for a short period at ambient temperatures < 40 °C)
- DC 3-wire, 19.2...28.8 VDC
- NO contact, PNP output
- Plug-in device, M12 x 1

Wiring Diagram





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.