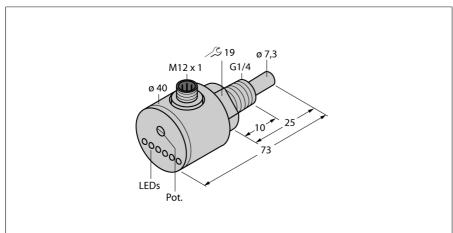
TURCK

Flow sensor Immersion sensor with integrated processor FCS-G1/4A4-AP8X-H1141



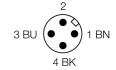


Type code Ident no.	FCS-G1/4A4-AP8X-H1141	
	6870101	
Operating range water	1150cm/s	
Oil operating range	3300 cm/s	
Stand-by time	typ. 8 s (215 s)	
Switch-on time	typ. 2 s (115 s)	
Switch-off time	typ. 2 s (115 s)	
Temperature jump, response time	max. 12 s	
Temperature gradient	≤ 250 K/min	
Medium temperature	- 2080 °C	
Operating voltage	2126VDC	
No-load current I₀	≤ 70 mA	
Output function	PNP, NO contact	
Rated operational current	0.4 A	
Voltage drop at I。	≤ 1.5 V	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Housing material	stainless steel, V4A (1.4571)	
Sensor material	stainless steel, AISI 316Ti	
Max. tightening torque housing nut	100 Nm	
Connection	male, M12 x 1	
Pressure resistance	100 bar	
Process connection	G 1⁄4"	
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	

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- **LED** band
- 3-wire DC, 21...26 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 tempera- ture. 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.

5 x green = 20 mA