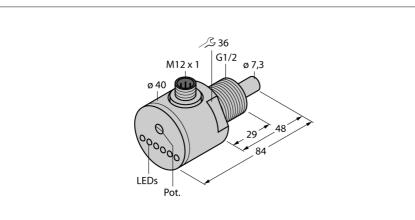
## Flow monitoring Immersion sensor with integrated processor FCS-GL1/2A4-AP8X-H1141





Type code	FCS-GL1/2A4-AP8X-H1141	
Ident-No.	6870204	
Ident-No (TUSA)	M6870204	
Mounting	insertion style sensor	
Water Operating Range	1150cm/s	
Oil Operating Range	3300 cm/s	
Stand-by time	typ. 8 s (2…15 s)	
Switch-on time	typ. 2 s (1…15 s)	
Switch-off time	typ. 2 s (1…15 s)	
Temperature jump, response time	max. 12 s	
Temperature gradient	≤ 250 K/min	
Medium temperature	-2080 °C	
Operating voltage	21 26VDC	
Current consumption	$\geq$ 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	30 Nm	
Connection	male, M12 x 1	
Pressure resistance	100 bar	
Process connection	G 1/2" long	

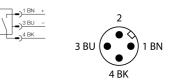
Switching state

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

LED chain green / yellow / red LED chain LED red LED yellow 4 x LEDs green

- **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



## unctional principle

ur insertion - flow sensors operate on the inciple of thermodynamics. The measurg probe is heated by several °C as against e flow medium. When fluid moves along the obe, the heat generated in the probe is dispated. The resulting temperature is meared and compared to the medium temperare. The flow status of every medium can be erived from the evaluated temperature differnce. Thus TURCK's wear-free flow sensors liably monitor the flow of gaseous and liquid edia.

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