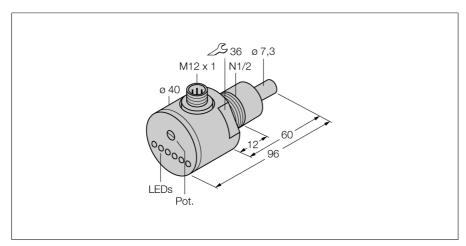
## Flow monitoring Immersion sensor with integrated processor FCS-N1/2A4-AP8X-H1141/L060





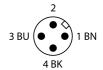
Type code	FCS-N1/2A4-AP8X-H1141/L060	
Ident-No.	6871005	
Ident-No (TUSA)	M6871005	
Mounting	insertion style sensor	
Water Operating Range	1150cm/s	
Oil Operating Range	3300 cm/s	
Stand-by time	typ. 8 s (215 s)	
Switch-on time	typ. 2 s (115 s)	
Switch-off time	typ. 2 s (115 s)	
Temperature jump, response time	max. 12 s	
Temperature gradient	≤ 250 K/min	
Medium temperature	-2080 °C	
Ambient temperature	-2080 °C	
Operating voltage	19.2 28.8VDC	
Output function	PNP, NO contact	
Rated operational current	0.4 A	
Voltage drop at I₅	≤ 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	flange connector, M12 x 1	
Pressure resistance	100 bar	
Process connection	NPT 1/8"	
Switching state	LED chain green / yellow / red	
Flow state display	LED chain	
Indication: Drop below setpoint	LED red	

LED yellow 4 x LEDs green

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- 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.

Indication: Setpoint reached

Indication: Setpoint exceeded