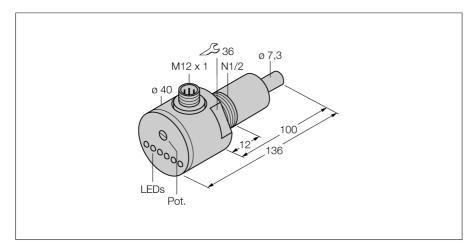


Flow monitoring Immersion sensor with integrated processor FCS-N1/2A4-AP8X-H1141/L100



Type designation	FCS-N1/2A4-AP8X-H1141/L100
Ident-No.	6871008

Mounting	Immersion sensor	
Water Operating Range	1150 cm/s	
Oil Operating Range	3300 cm/s	
Stand-by time	typ. 8 s (215 s)	
Switch-on time	typ. 2 s (113 s)	
Switch-off time	typ. 2 s (115 s)	
Temperature jump, response time	max. 12 s	
Temperature gradient	≤ 250 K/min	
Medium temperature	-20+80 °C	
Ambient temperature	-20+80 °C	

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Operating voltage	19.228.8 VDC	
Current consumption	≤ 70 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	
Protection class	IP67	

Design	Immersion
Housing material	Stainless steel, V4A (1.4571)
Sensor material	Stainless steel, V4A (1.4571)
Max. tightening torque housing nut	30 Nm

Electrical connection Connector, M12 × 1
Pressure resistance 100 bar
Process connection NPT ½"

Switching state	LED chain, Green/Yellow/Red
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Flow state display
Indication: Drop below setpoint
Indication: Setpoint reached
Indication: Setpoint exceeded

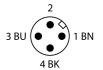
LED yellow
Indication: Setpoint exceeded

4 x LEDs green

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- DC 3-wire, 19.2...28.8 VDC
- NO contact, PNP output
- Connector device, M12 × 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.