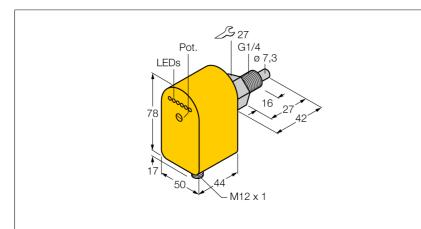
## Flow monitoring Immersion sensor with integrated processor FCS-G1/4A4P-AP8X-H1141

Type designation Ident no.





FC 1 BN + 3 BU - 4 BK	2 3 BU • 1 BN
	4 BK

Flow sensor for liquid media

Adjustment via potentiometer

DC 3-wire, 19.2...28.8 VDC

Connector device, M12 × 1

NO contact, PNP output

**Calorimetric principle** 

LED band

Wiring Diagram

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## **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.

ident no.	0070002
Mounting conditions	Immersion sensor
Water Operating Range	1150 cm/s
Oil Operating Range	3300 cm/s
Stand-by time	typ. 8 s (2…15 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	-20+80 °C
Ambient temperature	-20+70 °C
Operating voltage	19.228.8 VDC
Current consumption	$\leq$ 60 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
Protection class	IP67
Housing material	Plastic, PBT
Sensor material	Stainless steel, V4A (1.4571)
Max. tightening torque housing nut	30 Nm
Electrical connection	Connectors, M12 × 1
Pressure resistance	100 bar
Process connection	G ¼"
Switching state	LED chain,Green/Yellow/Red
Flow state display	LED chain
Indication: Drop below setpoint	LED red
Indication: Setpoint reached	LED yellow
Indication: Setpoint exceeded	4 x LEDs green

FCS-G1/4A4P-AP8X-H1141

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