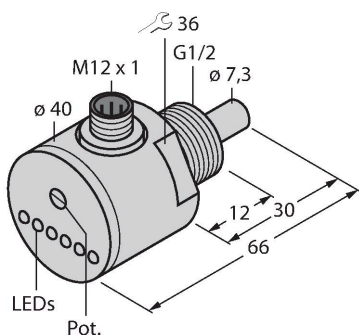


FCS-G1/2DY-AP8X-H1141

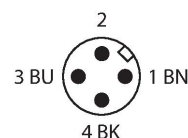
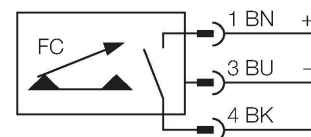
Flow Monitoring – Immersion Sensor with Integrated Processor



Features

- Sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- Status indicated via LED chain
- Sensor made of PVDF
- DC 3-wire, 19.2...28.8 VDC
- NO contact, PNP output
- Connector device, M12 × 1

Wiring diagram



Technical data

Ident. no.	6870003
Type	FCS-G1/2DY-AP8X-H1141
Mounting	Immersion sensor
Water Operating Range	1...70 cm/s
Oil Operating Range	2...100 cm/s
Stand-by time	typ. 60 s (40...100 s)
Switch-on time	typ. 30 s (5...50 s)
Switch-off time	typ. 30 s (5...50 s)
Temperature jump, response time	typ. 100 s (50...100 s)
Temperature gradient	≤ 1 K/min
Medium temperature	-10...+70 °C
Ambient temperature	-20...+80 °C
Operating voltage	19.2...28.8 VDC
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	Plastic, PVDF
Sensor material	Plastic, PVDF
Max. tightening torque housing nut	5 Nm
Electrical connection	Connector, M12 × 1

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.

Technical data

Process Pressure	5 bar
Process connection	G ½"
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