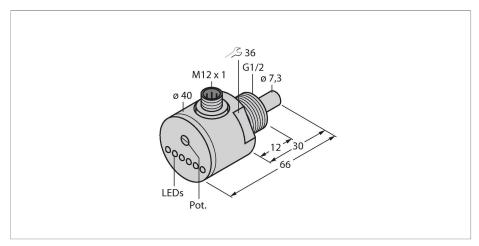


FCS-G1/2A4-AP8X-H1141 Flow Monitoring – Immersion Sensor with Integrated Processor



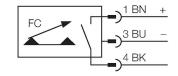
Technical data

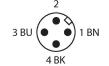
Ident. no.	6870004
Туре	FCS-G1/2A4-AP8X-H1141
Mounting conditions	Immersion sensor
Water Operating Range	1150 cm/s
Oil Operating Range	3300 cm/s
Stand-by time	typ. 8 s (215 s)
Switch-on time	typ. 2 s (115 s)
Switch-off time	typ. 2 s (115 s)
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	-20+80 °C
Ambient temperature	-20+80 °C
Operating voltage	19.228.8 VDC
Current consumption	≤ 80 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
MTTF	402 years acc. to SN 29500 (Ed. 99) 40 °C
Design	Immersion
Housing material	Stainless steel, 1.4571 (AISI 316Ti)
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm

Features

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

Wiring diagram





Functional principle

The function of immersion flow sensors is based on the thermodynamic principle. The sensor is heated up by a few degrees Celsius compared to the flow medium. If the medium flows past the sensor, the heat generated in the sensor is dissipated. The resulting temperature is measured and compared with the temperature of the medium. The flow condition of each medium can be derived from the temperature difference obtained. Thus, TURCK flow sensors reliably and wear-free monitor the flow of liquid or gaseous media.



Technical data

Connectors, M12 × 1
100 bar
G 1/2"
LED chain, Green/Yellow/Red
LED chain
LED red
LED yellow
4 x LEDs green
AFM 34 flat seal (x2), screwdriver (met-al/plastic)