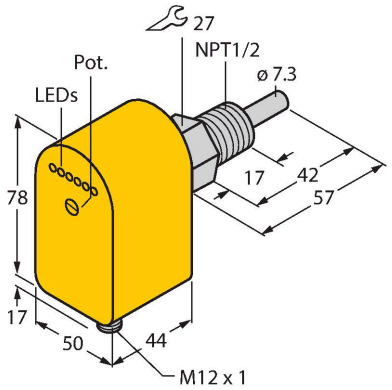
FCS-N1/2A4P-LIX-H1141/V300
Flow Monitoring – Immersion Sensor with Integrated Processor



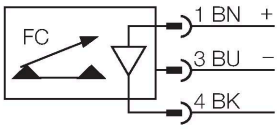
Features

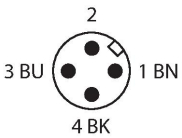
- flow sensor for water only
- calorimetric function principle
- adjustment via potentiometer
- status display via LED chain
- Operating range: 5…300 cm/s
- With linearized analog output
- DC 3-wire, 21.6…26.4 VDC
- 4…20 mA analog output
- Connector device, M12 × 1

Technical data

ID no.	6871047
Type	FCS-N1/2A4P-LIX-H1141/V300
Mounting	Immersion sensor
Water Operating Range	5…300 cm/s
Stand-by time	ca. 10 s
Setting time	1…15 s
Medium temperature	-20…+80 °C
Ambient temperature	-20…+70 °C
Operating voltage	21.6…26.4 VDC
Current consumption	≤ 100 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4…20 mA
Linearity deviation	≤ 10 %
Load	200…500 Ω
Protection class	IP65
Design	Immersion
Housing material	Plastic, PBT
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Process Pressure	100 bar
Process connection	1/2" NPT

Wiring diagram



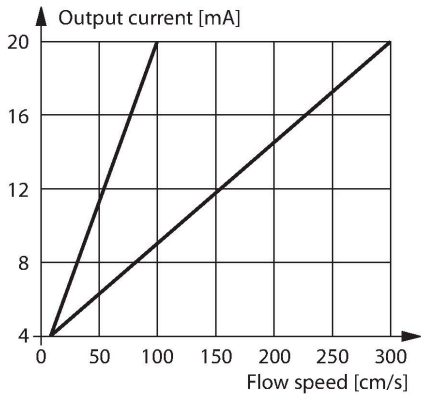


Functional principle

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

Flow state display	LED chain, red (1x), green (5x)
LED display	red = 4 mA 1x green > 4 mA 2x green > 8 mA 3x green > 12 mA 4x green > 16 mA 5x green = 20 mA



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