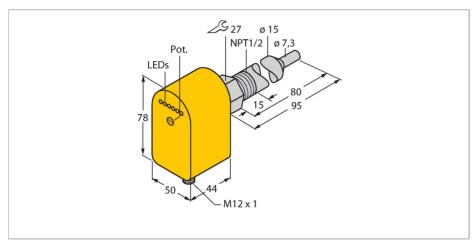
FCS-N1/2A4P-LIX-H1141/L080 Flow Monitoring – Immersion Sensor with Integrated Processor



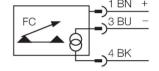
Technical data

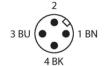
ID	6871049
Туре	FCS-N1/2A4P-LIX-H1141/L080
Mounting	Immersion sensor
Water Operating Range	1150 cm/s
Stand-by time	typ. 8 s (215 s)
Switch-on time	typ. 2 s (115 s)
Switch-off time	typ. 2 s (115 s)
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	-20+80 °C
Electrical data	
Operating voltage U _B	19.228.8 VDC
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	420 mA
Load	200500 Ω
Protection class	IP65
Mechanical data	
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

Features

- Sensor only for water
- Calorimetric principle
- Adjustments via potentiometer
- Status indicated via LED band
- Sensor length 80 mm
- ■DC 3-wire, 19.2...28.8 VDC
- ■4...20 mA analog 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

Process Pressure	100 bar
Process connection	1/2" NPT
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
Tests/approvals	

