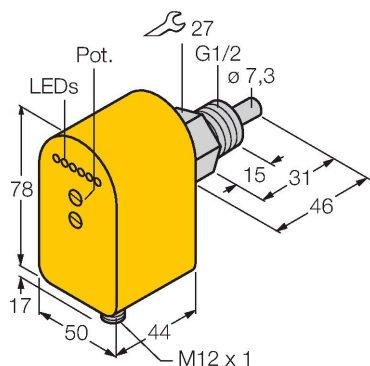


# FCS-G1/2A4P-LIX-H1141/D037

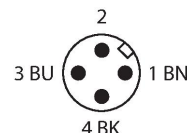
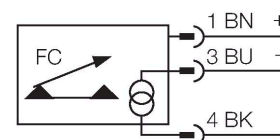
## Flow Monitoring – Immersion Sensor with Integrated Processor



### Features

- Sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- Status indicated via LED chain
- DC 3-wire, 19.2...28.8 VDC
- 4...20 mA analog output
- Connector device, M12 × 1

### Wiring diagram



### Technical data

ID	6870058
Type	FCS-G1/2A4P-LIX-H1141/D037
Special version	D037 Corresponds to: analog, compact, 2 pots
<b>Mounting</b>	<b>Immersion sensor</b>
Water Operating Range	1...150 cm/s
Oil Operating Range	3...300 cm/s
Stand-by time	approx. 10 s
Setting time	1...15 s
Medium temperature	-20...+70 °C
<b>Electrical data</b>	
Operating voltage $U_s$	19.2...28.8 VDC
Current consumption	≤ 100 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4...20 mA
Load	200...500 Ω
Protection class	IP65
<b>Mechanical data</b>	
Design	Immersion
Housing material	Plastic, PBT
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm

### 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

Electrical connection	Connector, M12 × 1
Process Pressure	100 bar
Process connection	G 1/2"
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	
Approvals	cULus
UL registration number	E210608

