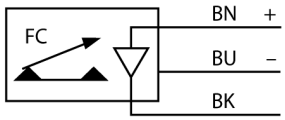
Flow Monitoring
Immersion Sensor with Integrated Processor
FCS-M18-LIX-0.2-RS4T

ID	6870796
Type	FCS-M18-LIX-0.2-RS4T
Mounting	Immersion sensor
Air Operating Range	0.5…15 m/s
Stand-by time	20…40 s
Setting time	typ. 2 s
Temperature gradient	≤ 200 K/min
Medium temperature	-20…+70 °C
Ambient temperature	-20…+70 °C
Electrical data	
Operating voltage U_B	19.2…28.8 VDC
Current consumption	≤ 70 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4…20 mA
Load	200…500 Ω
Protection class	IP67
Mechanical data	
Design	Immersion
Housing material	Metal, CuZn
Sensor material	Brass, brass, nickel-plated
Electrical connection	Cable with connector
Cable length (L)	2 m
Core cross-section	3 x 0.5 mm²
Process connection	M18 × 1
Power on display	LED, Green

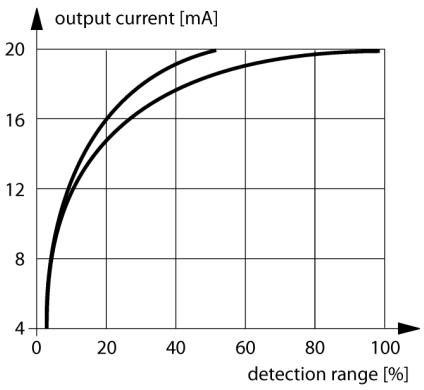
- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- Status display via 2-color LED
- Chrome-plated brass sensor
- DC 3-wire, 19.2…28.8 VDC
- 4…20 mA analog output

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.



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