

# Flow Monitoring

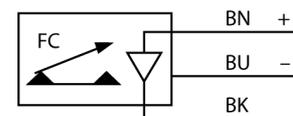
## Immersion Sensor with Integrated Processor

### FCS-M18-LIX-0.2-RS4T

<b>Type designation</b>	FCS-M18-LIX-0.2-RS4T
Ident-No.	6870796
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Type	FCS-M18-LIX-0.2-RS4T
<b>Mounting</b>	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
<b>Operating voltage</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
<b>Design</b>	Immersion
<b>Housing material</b>	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 mm <sup>2</sup>
Process connection	M18 x 1
<b>Power on display</b>	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

Our insertion - flow sensors operate on the principle of thermodynamics. The measuring probe is heated by several °C as against the flow medium. When fluid moves along the probe, the heat generated in the probe is dissipated. The resulting temperature is measured and compared to the medium temperature. The flow status of every medium can be derived from the evaluated temperature difference. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid media.

