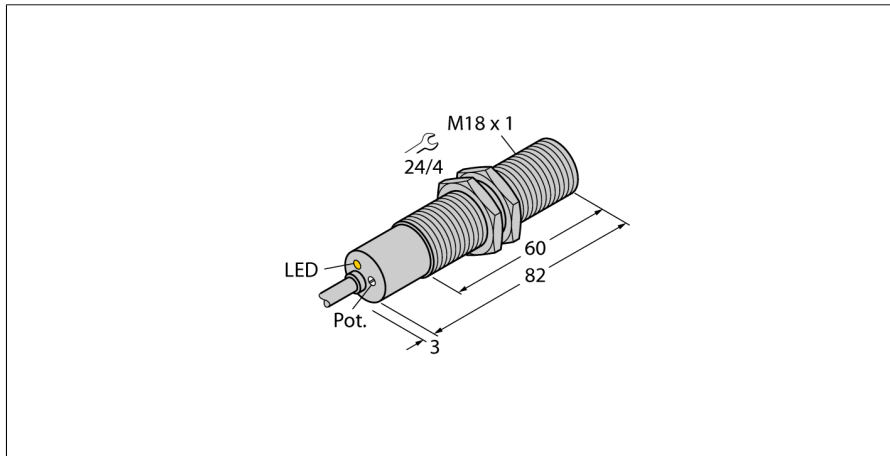


## Flow monitoring

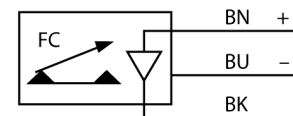
### Immersion sensor with integrated processor

#### FCS-M18-LIX/D067



- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- LED "power on" indication
- 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.

<b>Type designation</b>	FCS-M18-LIX/D067
Ident-No.	6870712
<b>Mounting</b>	Immersion sensor
Air Operating Range	0.5...50 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
Housing material	Metal, CuZn
Sensor material	Brass, brass, nickel-plated
Electrical connection	Cables
Cable length (L)	2 m
Cable cross section	3 x 0.5 mm <sup>2</sup>
Process connection	M18 x 1
<b>Power on display</b>	LED, green