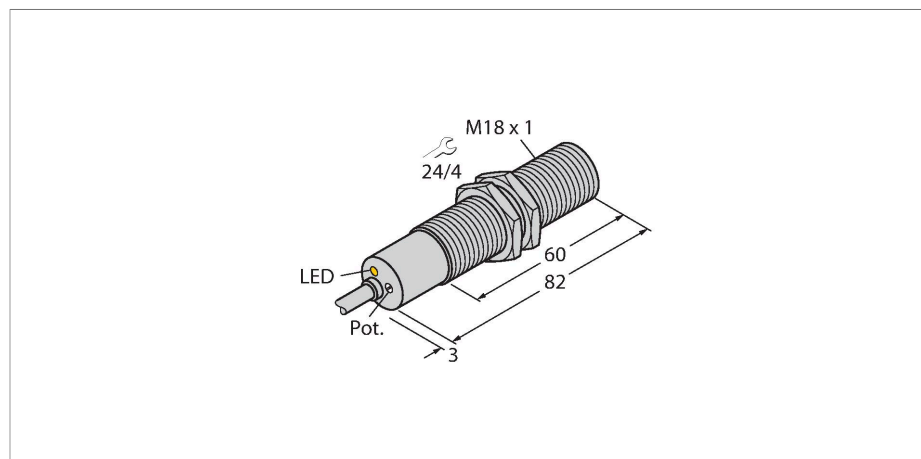


FCS-M18-LIX

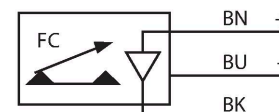
Flow Monitoring – Immersion Sensor with Integrated Processor



Features

- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- Power-on LED
- Nickel-plated brass sensor
- DC 3-wire, 19.2...28.8 VDC
- 4...20 mA analog output

Wiring diagram

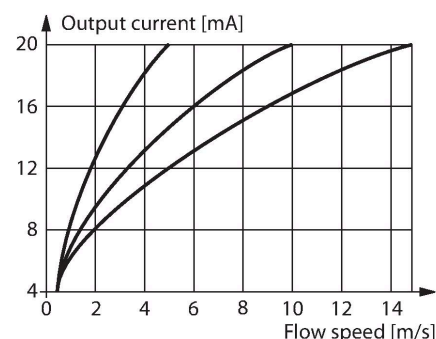


Technical data

| | |
|-----------------------------|-----------------------------|
| ID | 6870707 |
| Type | FCS-M18-LIX |
| 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 | 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 |
| Cable length (L) | 2 m |

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

| | |
|------------------------|-------------------------|
| Core cross-section | 3 x 0.5 mm ² |
| Process connection | M18 × 1 |
| Power on display | LED, Green |
| Tests/approvals | |
| Approvals | cULus |
| UL registration number | E210608 |