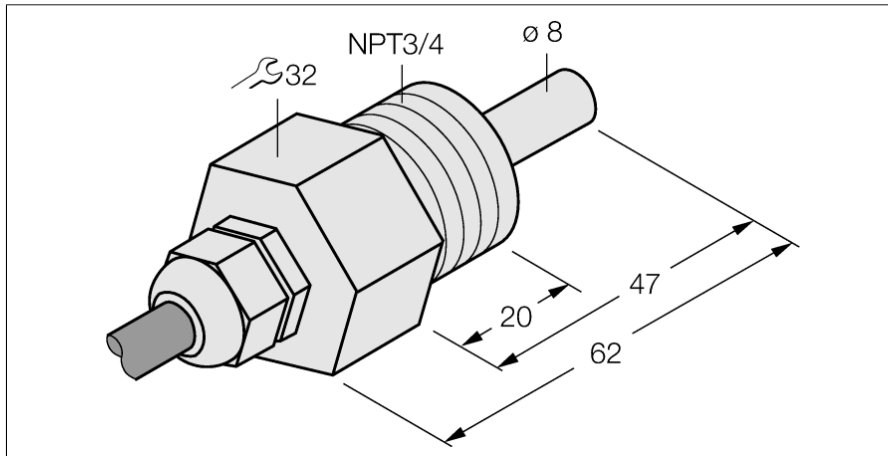
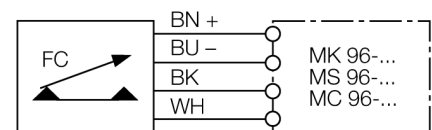


Flow sensor
Immersion sensor without integrated processor
FCS-N3/4T-NA



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
- Status indicated via LED chain on signal processor
- Sensor made of PTFE
- Cable device
- 4-wire connection to the processor

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.

| | |
|---------------------------------|--------------------------|
| Type code | FCS-N3/4T-NA |
| Ident no. | 6871312 |
| Operating range water | 1...70cm/s |
| Oil operating range | 2...100 cm/s |
| Stand-by time | typ. 60 s (40...100 s) |
| Switch-on time | typ. 30 s (10...50 s) |
| Switch-off time | typ. 30 s (10...50 s) |
| Temperature jump, response time | typ. 100 s (50...100 s) |
| Temperature gradient | ≤ 1 K/min |
| Medium temperature | -10...70 °C |
| Protection class | IP68 |
| Housing material | plastic, PTFE |
| Sensor material | plastic, PTFE |
| Connection | FEP cable |
| Cable length | 2 m |
| Cable cross section | 4 x 0.25 mm ² |
| Pressure resistance | 5 bar |
| Process connection | NPT 3/4" |