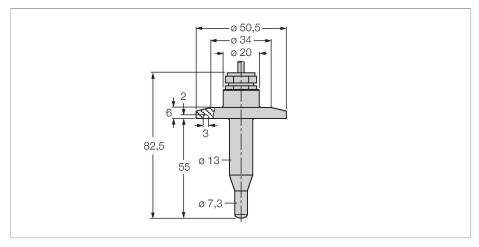


FCS-50A4-NA/D014

Flow Monitoring – Immersion Sensor without Integrated Processor



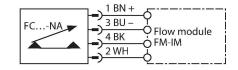
Technical data

| ID | 6872009 |
|---------------------------------------|--|
| Туре | FCS-50A4-NA/D014 |
| Special version | D014 Corresponds to:Food sensor with Tri-Clamp connection (optional with 3A certificate) |
| Mounting conditions | Immersion sensor |
| Water Operating Range | 1150 cm/s |
| Oil Operating Range | 3300 cm/s |
| Stand-by time | typ. 8 s (215 s) |
| Switch-on time | typ. 2 s (115 s) |
| Switch-off time | typ. 2 s (115 s) |
| Temperature jump, response time | max. 12 s |
| Temperature gradient | ≤ 250 K/min |
| Medium temperature | 10+120 °C |
| Ambient temperature | -20+80 °C |
| Electrical data | |
| Protection class | IP68 |
| Mechanical data | |
| Design | Immersion |
| Housing material | Stainless steel, 1.4404 (AISI 316L) |
| Sensor material | Stainless steel, 1.4404 (AISI 316L), R _a ≤ 0.8 µm |
| Max. tightening torque of housing nut | 30 Nm |
| Electrical connection | Cable |
| Cable length | 2 m |
| Cable Jacket Material | FEP |
| Core cross-section | 4 x 0.25 mm² |

Features

- ■Sensor for liquid media
- Calorimetric functionality
- Adjustment via signal processor
- Status indicated via LED chain on signal processor
- Sensor made of A4 stainless steel (1.4404)
- Mech. connection: Tri-Clamp
- ■Temperature range: +10...+120 °C
- 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.



Technical data

| Pressure resistance | 10 bar |
|---------------------|------------------|
| Process connection | Tri-Clamp 1 1/2" |

Accessories

