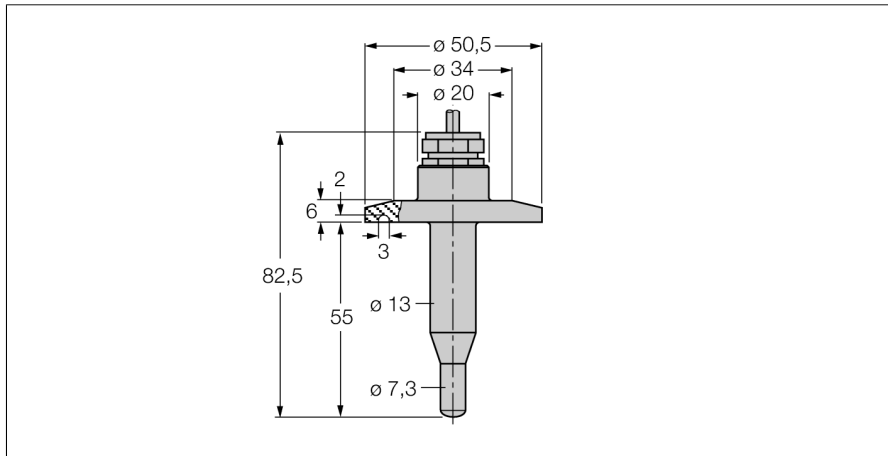


Flow monitoring

Immersion sensor without integrated processor

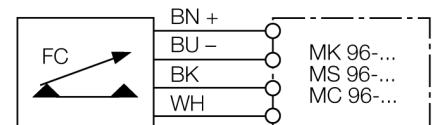
FCS-50A4-NA/D014



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
- Status indicated via LED chain on signal processor
- Sensor, stainless steel A4 (1.4404)
- Mechanical Connection: Tri-Clamp
- 3A certificate
- Temperature range: +10...+120 °C
- Cable device
- 4-wire connection to the processor

| | |
|------------------|------------------|
| Type code | FCS-50A4-NA/D014 |
| Ident-No. | 6872009 |
| Ident-No (TUSA) | M6872009 |

Wiring diagram



| | |
|---------------------------------|------------------------|
| Mounting | insertion style sensor |
| Water Operating Range | 1...150cm/s |
| Oil Operating Range | 3...300 cm/s |
| Stand-by time | typ. 8 s (2...15 s) |
| Switch-on time | typ. 2 s (1...15 s) |
| Switch-off time | typ. 2 s (1...15 s) |
| Temperature jump, response time | max. 12 s |
| Temperature gradient | ≤ 250 K/min |
| Medium temperature | 10...120 °C |

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.

| | |
|------------------|------|
| IP Rating | IP68 |
|------------------|------|

| | |
|-------------------------|-------------------------------|
| Housing material | stainless steel, V4A (1.4404) |
| Sensor material | stainless steel, AISI 316L |
| Connection | FEP cable |
| Cable length | 2 m |
| Cable cross section | 4 x 0.25 mm ² |
| Pressure resistance | 10 bar |
| Process connection | Tri-Clamp 1 1/2" |