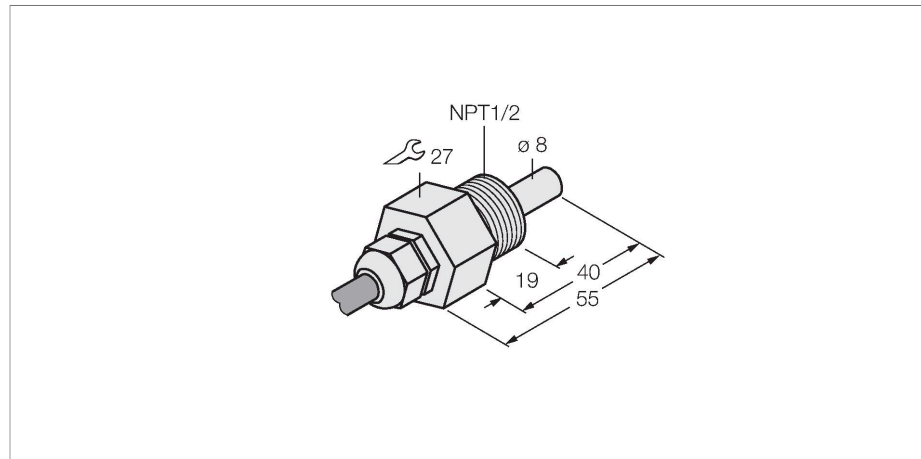


# FCS-N1/2T-NA

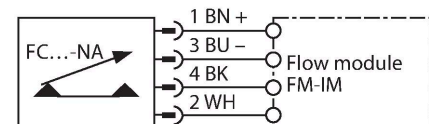
## Flow Monitoring – Immersion Sensor without Integrated Processor



### Features

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

### Wiring diagram



### Technical data

|                                    |                          |
|------------------------------------|--------------------------|
| Ident. no.                         | 6871422                  |
| Type                               | FCS-N1/2T-NA             |
| <b>Mounting</b>                    | <b>Immersion sensor</b>  |
| Water Operating Range              | 1...70 cm/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                     |
| Design                             | Immersion                |
| <b>Housing material</b>            | <b>Plastic, PTFE</b>     |
| Sensor material                    | Plastic, PTFE            |
| Max. tightening torque housing nut | 5 Nm                     |
| Electrical connection              | Cable                    |
| Cable length (L)                   | 2 m                      |
| Cable Jacket Material              | FEP                      |
| Core cross-section                 | 4 x 0.25 mm <sup>2</sup> |
| Process Pressure                   | 5 bar                    |
| Process connection                 | NPT 1/2"                 |

### 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.