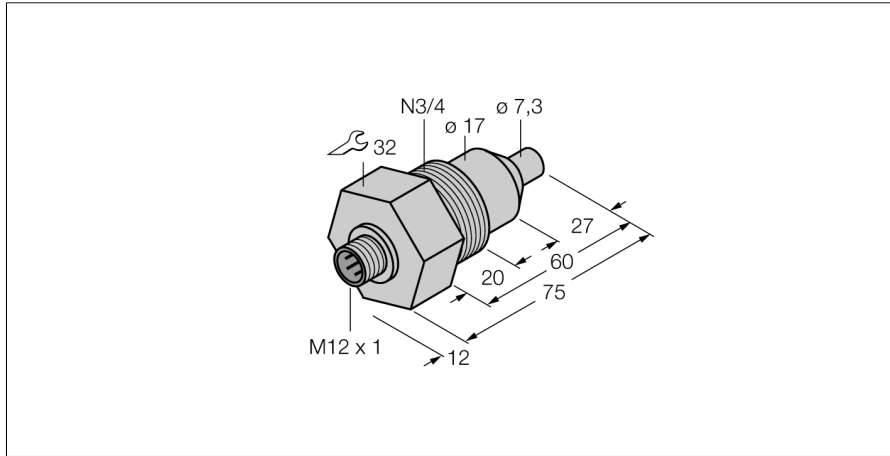


Flow monitoring

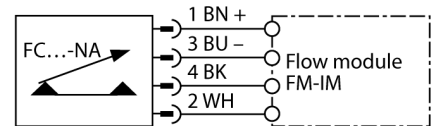
Immersion sensor without integrated processor

FCS-N3/4A4-NA-H1141/L060



- Sensor for liquid media
- Calorimetric functionality
- Adjustment via signal processor
- Status indicated via LED chain on signal processor
- Connector device, M12 × 1
- 4-wire connection to the processor

Wiring Diagram



Type designation FCS-N3/4A4-NA-H1141/L060
Ident-No. 6870805

Mounting Immersion sensor
Water Operating Range 1...150 cm/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 -20...+80 °C

Protection class IP67

Design Immersion
Housing material Stainless steel, V4A (1.4571)
Sensor material Stainless steel, V4A (1.4571)
Max. tightening torque housing nut 30 Nm
Electrical connection Connector, M12 × 1
Pressure resistance 100 bar
Process connection NPT 3/4"

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.