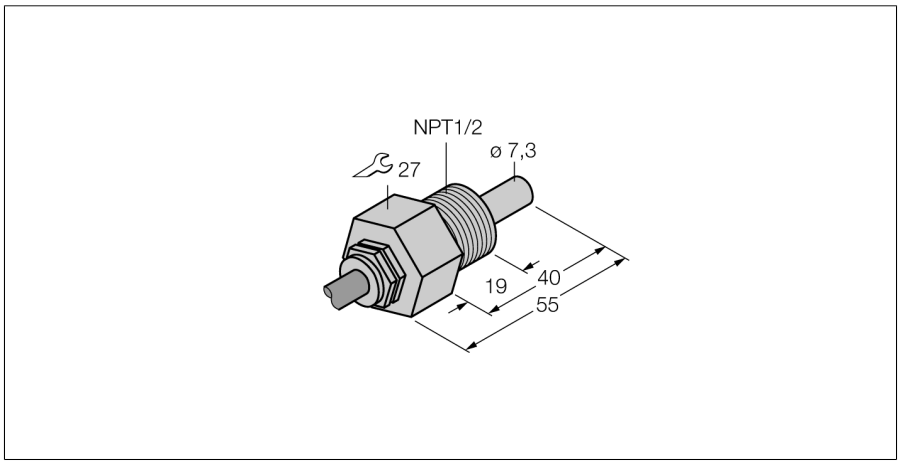
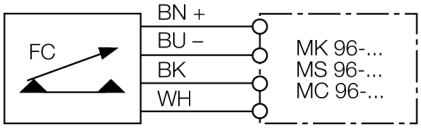
Flow monitoring
Immersion sensor without integrated processor
FCS-N1/2A4-NA/D100

Industrial Automation



- **Flow sensor for liquid media**
- **Calorimetric principle**
- **Adjustment via potentiometer on processor**
- **Status indicated via LED chain on signal processor**
- **Temperature range: +10…+120 °C (up to +135 °C for a short period)**
- **Cable device**
- **4-wire connection to the processor**

Wiring diagram



Type code	FCS-N1/2A4-NA/D100
Ident-No.	6871412
Ident-No (TUSA)	M6871412
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…13 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
IP Rating	IP68
Housing material	stainless steel, V4A (1.4571)
Sensor material	stainless steel, AISI 316Ti
Max. tightening torque housing nut	30 Nm
Connection	FEP cable
Cable length	2 m
Cable cross section	4 x 0.25 mm²
Pressure resistance	100 bar
Process connection	NPT ½"

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.

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