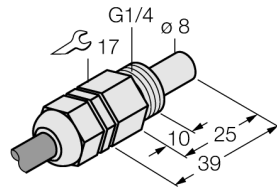


# Flow monitoring

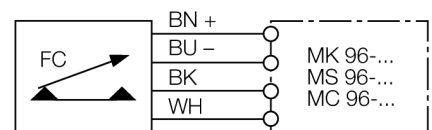
## Immersion sensor without integrated processor

### FCS-G1/4T-NA



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
- Status indicated via LED chain on signal processor
- Sensor made of PTFE
- 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.

<b>Type code</b>	FCS-G1/4T-NA
Ident-No.	6870310
Ident-No (TUSA)	M6870310

<b>Mounting</b>	insertion style sensor
Water Operating Range	1...70cm/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

<b>IP Rating</b>	IP68
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<b>Housing material</b>	plastic, PTFE
Sensor material	plastic, PTFE
Connection	FEP cable
Cable length	2 m
Cable cross section	4 x 0.25 mm <sup>2</sup>
Pressure resistance	5 bar
Process connection	G 1/4"