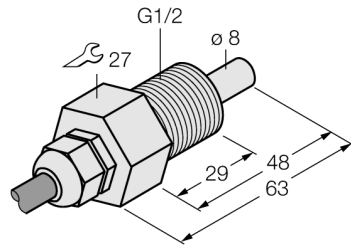
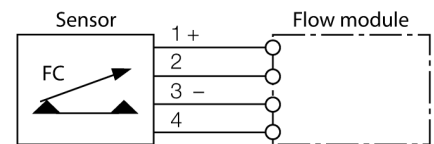


**Flow sensor**  
**Immersion sensor without integrated processor**  
**FCS-GL1/2TN-NA/D048**



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
- Status indicated via LED chain on signal processor
- Sensor made of Titanium B3 with metal-ceramic coating
- PVDF cable gland
- 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-GL1/2TN-NA/D048
Ident no.	6870478
<b>Operating range water</b>	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	- 20...80 °C
<b>Protection class</b>	IP68
<b>Housing material</b>	metal, Titanium/powder metallurgy (3.7235)
Sensor material	metal, Titanium/metal ceramic (3.7235)
Max. tightening torque housing nut	100 Nm
Connection	PVC cable
Cable length	2 m
Cable cross section	4 x 0.25 mm <sup>2</sup>
Pressure resistance	100 bar
Process connection	G 1/2" long