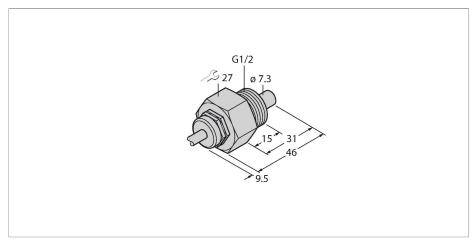
# FCS-G1/2A4-NA Flow Monitoring - Ir

# Flow Monitoring – Immersion Sensor without Integrated Processor



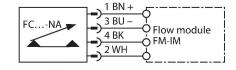
#### Technical data

ID	6870338
Туре	FCS-G1/2A4-NA
Mounting conditions	Immersion sensor
Water Operating Range	1150 cm/s
Oil Operating Range	3300 cm/s
Stand-by time	typ. 8 s (215 s)
Switch-on time	typ. 2 s (115 s)
Switch-off time	typ. 2 s (115 s)
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	-20+80 °C
Electrical data	
Protection class	IP68
FTOLECTION Class	11 00
Mechanical data	11 00
	Immersion
Mechanical data	
Mechanical data Design	Immersion
Mechanical data  Design  Housing material	Immersion Stainless steel, 1.4571 (AISI 316Ti)
Mechanical data  Design  Housing material  Sensor material	Immersion Stainless steel, 1.4571 (AISI 316Ti) Stainless steel, 1.4571 (AISI 316Ti)
Mechanical data  Design  Housing material  Sensor material  Max. tightening torque of housing nut	Immersion Stainless steel, 1.4571 (AISI 316Ti) Stainless steel, 1.4571 (AISI 316Ti) 30 Nm
Mechanical data  Design  Housing material  Sensor material  Max. tightening torque of housing nut  Electrical connection	Immersion Stainless steel, 1.4571 (AISI 316Ti) Stainless steel, 1.4571 (AISI 316Ti) 30 Nm Cable
Mechanical data  Design  Housing material  Sensor material  Max. tightening torque of housing nut  Electrical connection  Cable length	Immersion Stainless steel, 1.4571 (AISI 316Ti) Stainless steel, 1.4571 (AISI 316Ti) 30 Nm Cable 2 m
Mechanical data  Design  Housing material  Sensor material  Max. tightening torque of housing nut  Electrical connection  Cable length  Cable Jacket Material	Immersion Stainless steel, 1.4571 (AISI 316Ti) Stainless steel, 1.4571 (AISI 316Ti) 30 Nm Cable 2 m PVC
Mechanical data  Design  Housing material  Sensor material  Max. tightening torque of housing nut  Electrical connection  Cable length  Cable Jacket Material  Core cross-section	Immersion Stainless steel, 1.4571 (AISI 316Ti) Stainless steel, 1.4571 (AISI 316Ti) 30 Nm Cable 2 m PVC 4 x 0.25 mm²

#### **Features**

- ■Sensor for liquid media
- Calorimetric functionality
- ■Adjustment via signal processor
- Status indicated via LED chain on signal processor
- 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.



### Accessories

