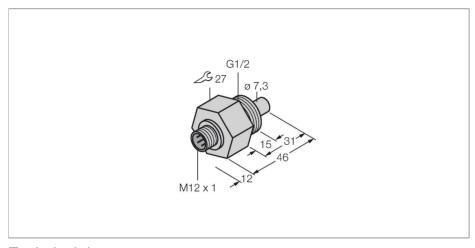


# FCS-G1/2A4-NA-H1141 Flow Monitoring – Immersion Sensor without Integrated Processor



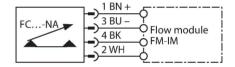
#### Technical data

Type FCS-G1/2A4-NA-H1141  Mounting 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 IP67  Mechanical data  Design Immersion  Housing material Stainless steel, 1.4571 (AISI 316Ti)  Sensor material Stainless steel, 1.4571 (AISI 316Ti)  Max. tightening torque of housing nut 30 Nm  Electrical connection Connector, M12 × 1  Process Pressure 100 bar  Process connection G 1/2"	ID	6870303
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       IP67         Mechanical data       Design       Immersion         Housing material       Stainless steel, 1.4571 (AISI 316Ti)         Sensor material       Stainless steel, 1.4571 (AISI 316Ti)         Max. tightening torque of housing nut       30 Nm         Electrical connection       Connector, M12 × 1         Process Pressure       100 bar	Туре	FCS-G1/2A4-NA-H1141
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Electrical connection Connector, M12 × 1  Process Pressure 100 bar	Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Process Pressure 100 bar	Max. tightening torque of housing nut	30 Nm
	Electrical connection	Connector, M12 × 1
Process connection G 1/2"	Process Pressure	100 bar
	Process connection	G 1/2"

#### **Features**

- 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



## 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.