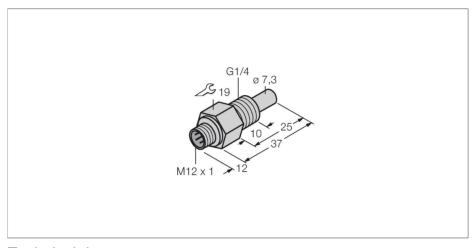


FCS-G1/4A2-NA-H1141 Flow Monitoring – Immersion Sensor without Integrated Processor



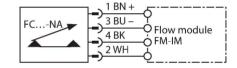
Technical data

Type FCS-G1/4A2-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, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	ID	6870301
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 Protection class IP67 Mechanical data Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Туре	FCS-G1/4A2-NA-H1141
Oil Operating Range3300 cm/sStand-by timetyp. 8 s (215 s)Switch-on timetyp. 2 s (115 s)Switch-off timetyp. 2 s (115 s)Temperature jump, response timemax. 12 sTemperature gradient≤ 250 K/minMedium temperature-20+80 °CElectrical dataProtection classIP67Mechanical dataDesignImmersionHousing materialStainless steel, 1.4305 (AISI 303)Sensor materialStainless steel, 1.4305 (AISI 303)Max. tightening torque of housing nut30 Nm	Mounting	Immersion sensor
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 Protection class IP67 Mechanical data Design Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Water Operating Range	1150 cm/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, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Oil Operating Range	3300 cm/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, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Stand-by time	typ. 8 s (215 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, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Switch-on time	typ. 2 s (115 s)
Temperature gradient ≤ 250 K/min Medium temperature -20+80 °C Electrical data Protection class IP67 Mechanical data Design Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Switch-off time	typ. 2 s (115 s)
Medium temperature -20+80 °C Electrical data Protection class IP67 Mechanical data Design Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Temperature jump, response time	max. 12 s
Electrical data Protection class IP67 Mechanical data Design Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Temperature gradient	≤ 250 K/min
Protection class IP67 Mechanical data Design Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Medium temperature	-20+80 °C
Mechanical data Design Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Electrical data	
Design Immersion Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Protection class	IP67
Housing material Stainless steel, 1.4305 (AISI 303) Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Mechanical data	
Sensor material Stainless steel, 1.4305 (AISI 303) Max. tightening torque of housing nut 30 Nm	Design	Immersion
Max. tightening torque of housing nut 30 Nm	Housing material	Stainless steel, 1.4305 (AISI 303)
	Sensor material	Stainless steel, 1.4305 (AISI 303)
	Max. tightening torque of housing nut	30 Nm
Electrical connection Connector, M12 × 1	Electrical connection	Connector, M12 × 1
Process Pressure 100 bar	Process Pressure	100 bar
Process connection G 1/4"	Process connection	G 1/4"

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.