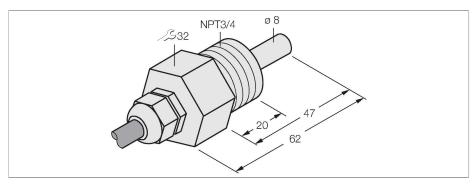


FCS-N3/4T-NA Flow Monitoring – Immersion Sensor without Integrated Processor



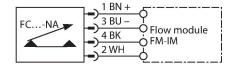
Technical data

Type FCS-N3/4T-NA Mounting conditions Immersion sensor Water Operating Range 170 cm/s Oil Operating Range 2100 cm/s Stand-by time typ. 60 s (40100 s) Switch-on time typ. 30 s (1050 s) Switch-off time typ. 100 s (50100 s) Temperature jump, response time typ. 100 s (50100 s) Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data Protection class IP68 Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Process connection 3/4" NPT	ID	6871312
Water Operating Range 170 cm/s Oil Operating Range 2100 cm/s Stand-by time typ. 60 s (40100 s) Switch-on time typ. 30 s (1050 s) Switch-off time typ. 100 s (50100 s) Temperature jump, response time typ. 100 s (50100 s) Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data IP68 Mechanical data IP68 Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Туре	FCS-N3/4T-NA
Oil Operating Range 2100 cm/s Stand-by time typ. 60 s (40100 s) Switch-on time typ. 30 s (1050 s) Switch-off time typ. 30 s (1050 s) Temperature jump, response time typ. 100 s (50100 s) Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data IP68 Mechanical data Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Mounting conditions	Immersion sensor
Stand-by time typ. 60 s (40100 s) Switch-on time typ. 30 s (1050 s) Switch-off time typ. 30 s (1050 s) Temperature jump, response time typ. 100 s (50100 s) Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data Protection class IP68 Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Water Operating Range	170 cm/s
Switch-on time typ. 30 s (1050 s) Switch-off time typ. 30 s (1050 s) Temperature jump, response time typ. 100 s (50100 s) Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data Protection class IP68 Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Oil Operating Range	2100 cm/s
Switch-off time typ. 30 s (1050 s) Temperature jump, response time typ. 100 s (50100 s) Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data Protection class IP68 Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Stand-by time	typ. 60 s (40100 s)
Temperature jump, response time typ. 100 s (50100 s) Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data Protection class IP68 Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Switch-on time	typ. 30 s (1050 s)
Temperature gradient ≤ 1 K/min Medium temperature -10+70 °C Electrical data Protection class IP68 Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Switch-off time	typ. 30 s (1050 s)
Medium temperature -10+70 °C Electrical data Protection class Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Temperature jump, response time	typ. 100 s (50100 s)
Electrical data Protection class IP68 Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Temperature gradient	≤ 1 K/min
Protection class Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Medium temperature	-10+70 °C
Mechanical data Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Electrical data	
Design Immersion Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Protection class	IDGO
Housing material Plastic, PTFE Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	1 Totection class	100
Sensor material Plastic, PTFE Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar		IFOO
Max. tightening torque of housing nut 5 Nm Electrical connection Cable Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Mechanical data	
Electrical connection Cable Cable length Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Mechanical data Design	Immersion
Cable length 2 m Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Mechanical data Design Housing material	Immersion Plastic, PTFE
Cable Jacket Material FEP Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Mechanical data Design Housing material Sensor material	Immersion Plastic, PTFE Plastic, PTFE
Core cross-section 4 x 0.25 mm² Pressure resistance 5 bar	Mechanical data Design Housing material Sensor material Max. tightening torque of housing nut	Immersion Plastic, PTFE Plastic, PTFE 5 Nm
Pressure resistance 5 bar	Mechanical data Design Housing material Sensor material Max. tightening torque of housing nut Electrical connection	Immersion Plastic, PTFE Plastic, PTFE 5 Nm Cable
	Mechanical data Design Housing material Sensor material Max. tightening torque of housing nut Electrical connection Cable length	Immersion Plastic, PTFE Plastic, PTFE 5 Nm Cable 2 m
Process connection 3/4" NPT	Mechanical data Design Housing material Sensor material Max. tightening torque of housing nut Electrical connection Cable length Cable Jacket Material	Immersion Plastic, PTFE Plastic, PTFE 5 Nm Cable 2 m FEP
	Mechanical data Design Housing material Sensor material Max. tightening torque of housing nut Electrical connection Cable length Cable Jacket Material Core cross-section	Immersion Plastic, PTFE Plastic, PTFE 5 Nm Cable 2 m FEP 4 x 0.25 mm²

Features

- ■Sensor for liquid media
- Calorimetric functionality
- Adjustment via signal 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.

TURCK

Accessories

