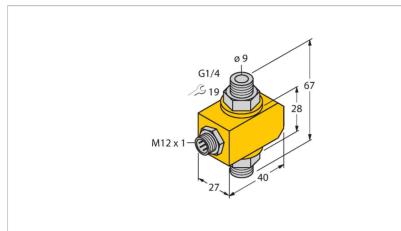


FCI-D10A4P-NA-H1141 Flow Monitoring – Inline Sensor with Separate Processor



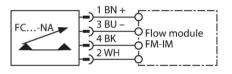
Technical data

TypeFCI-D10A4P-NA-H1141MountingInline sensorFlow operating range 0.16 l/minStand-by time 5 s Switch-on time 0.51 s Switch-off time 0.51 s Temperature jump, response timemax. 12 sTemperature gradient $\leq 400 \text{ K/min}$ Medium temperature $0+80 \text{ °C}$ Ambient temperature $-20+70 \text{ °C}$ Protection classIP67DesignInlineHousing materialPlastic, PBTSensor materialStainless steel, 1.4571 (AISI 316Ti)Max. tightening torque of housing nut 30 Nm Electrical connectionConnector, M12 × 1Process Pressure 20 bar Process connection $G 1/4$ "	ID no.	6870629
Flow operating range0.16 l/minStand-by time5 sSwitch-on time0.51 sSwitch-off time0.51 sTemperature jump, response timemax. 12 sTemperature gradient≤ 400 K/minMedium temperature0+80 °CAmbient temperature-20+70 °CProtection classIP67DesignInlineHousing materialPlastic, PBTSensor materialStainless steel, 1.4571 (AISI 316Ti)Max. tightening torque of housing nut30 NmElectrical connectionConnector, M12 × 1Process Pressure20 bar	Туре	FCI-D10A4P-NA-H1141
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Housing materialPlastic, PBTSensor materialStainless steel, 1.4571 (AISI 316Ti)Max. tightening torque of housing nut30 NmElectrical connectionConnector, M12 × 1Process Pressure20 bar	Protection class	IP67
Sensor materialStainless steel, 1.4571 (AISI 316Ti)Max. tightening torque of housing nut30 NmElectrical connectionConnector, M12 × 1Process Pressure20 bar	Design	Inline
Max. tightening torque of housing nut30 NmElectrical connectionConnector, M12 × 1Process Pressure20 bar	Housing material	Plastic, PBT
Electrical connectionConnector, M12 × 1Process Pressure20 bar	Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Process Pressure 20 bar	Max. tightening torque of housing nut	30 Nm
	Electrical connection	Connector, M12 × 1
Process connection G 1/4"	Process Pressure	20 bar
	Process connection	G 1/4"

Features

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
 Status indicated via LED chain on signal processor
- Operating range 0.1...6 l/min
- No temperature monitoring
- Connector device, M12 × 1
- ■4-wire connection to the processor

Wiring diagram



Functional principle

The function of the inline flow sensors is based on the thermo-dynamic principle. Heat is generated in a measuring tube and absorbed by the flowing medium. The transported heat loss is thus a measure of the flow speed. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid media. A low pressure drop and fast response to flow rate variations are the outstanding features of these devices.