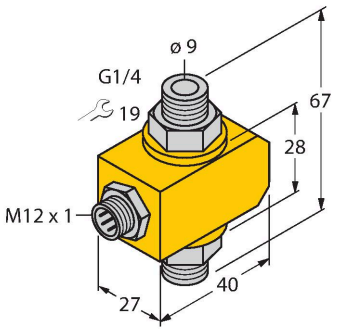
FCI-D10A4P-NA-H1141
Flow Monitoring – Inline Sensor without Integrated Processor



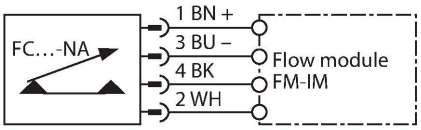
Technical data

ID	6870629
Type	FCI-D10A4P-NA-H1141
Mounting	Inline sensor
Flow operating range	0.1…6 l/min
Stand-by time	5 s
Switch-on time	0.5…1 s
Switch-off time	0.5…1 s
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 400 K/min
Medium temperature	0…+80 °C
Ambient temperature	-20…+70 °C
Electrical data	
Protection class	IP67
Mechanical data	
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Process Pressure	20 bar
Process connection	G 1/4"
Tests/approvals	

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.