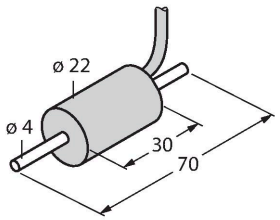
FCI-D03A4P-NA
Flow Monitoring – Inline Sensor without Integrated Processor



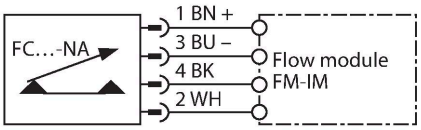
Technical data

ID	6870637
Type	FCI-D03A4P-NA
Mounting	Inline sensor
Flow operating range	0.005…0.15 l/min
Stand-by time	typ. 8 s (2…15 s)
Switch-on time	typ. 2 s (1…15 s)
Switch-off time	typ. 2 s (1…15 s)
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	-5…+70 °C
Ambient temperature	-20…+70 °C
Electrical data	
Protection class	IP68
Mechanical data	
Design	Inline
Housing material	Plastic, Delrin
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Electrical connection	Cable
Cable length (L)	2 m
Cable Jacket Material	PVC
Core cross-section	4 x 0.25 mm^2
Process Pressure	5 bar
Process connection	Barrel 4 mm

Features

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
- Status indicated via LED chain on signal processor
- Sensor housing made of Delrin
- Mechanical Connection: Barrel, 4 mm
- Cable device
- 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.

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