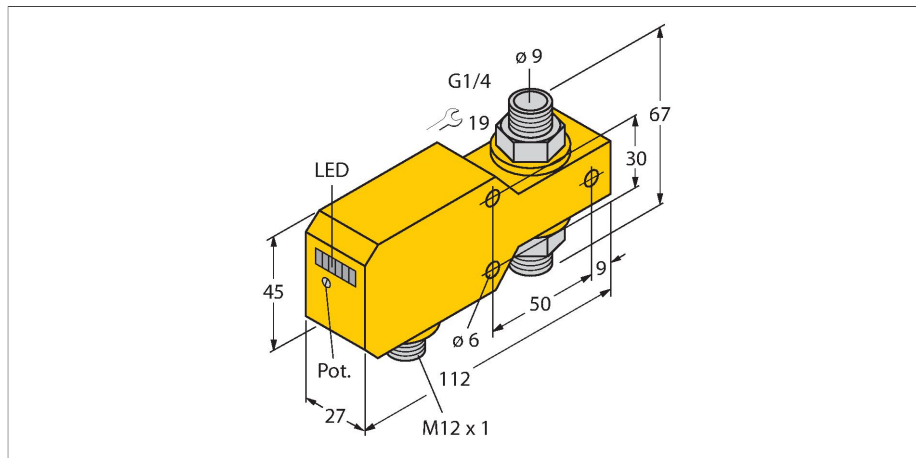


FCI-D10A4P-ARX-H1140/A

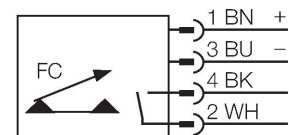
Flow Monitoring – Inline Sensor with Integrated Processor



Features

- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- Operating range 0.5...40 m/s
- DC 4-wire, 21.6...26.4 VDC
- NO contact, relay output
- Plug-in device, M12 x 1

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.

Technical data

ID	6870667
Type	FCI-D10A4P-ARX-H1140/A
Mounting conditions	Inline sensor
Air Operating Range	0.5...40 m/s
Stand-by time	10...30 s
Switch-on time	typ. 2 s (1...20 s)
Switch-off time	typ. 2 s (1...20 s)
Temperature gradient	≤ 20 K/min
Medium temperature	0...+80 °C
Ambient temperature	0...+60 °C
Electrical data	
Operating voltage U_B	21.6...26.4 VDC
Current consumption	≤ 50 mA
Output function	Relay output, NO contact
Rated operational current	1 A
Short-circuit protection	no
Reverse polarity protection	yes
AC switching voltage	30 VAC
DC switching voltage	36 VDC
Protection class	IP67
MTTF	524 years acc. to SN 29500 (Ed. 99) 40 °C
Mechanical data	
Design	Inline
Housing material	Plastic, PBT
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm

Technical data

Electrical connection	Connector, M12 × 1
Pressure resistance	20 bar
Process connection	G 1/4"
Switching state	LED chain, Green/yellow/red
Flow state display	LED chain
Indication: Drop below setpoint	LED Red
Indication: Setpoint reached	LED Yellow
Indication: Setpoint exceeded	4 × LEDs Green
Tests/approvals	
Approvals	CE UKCA