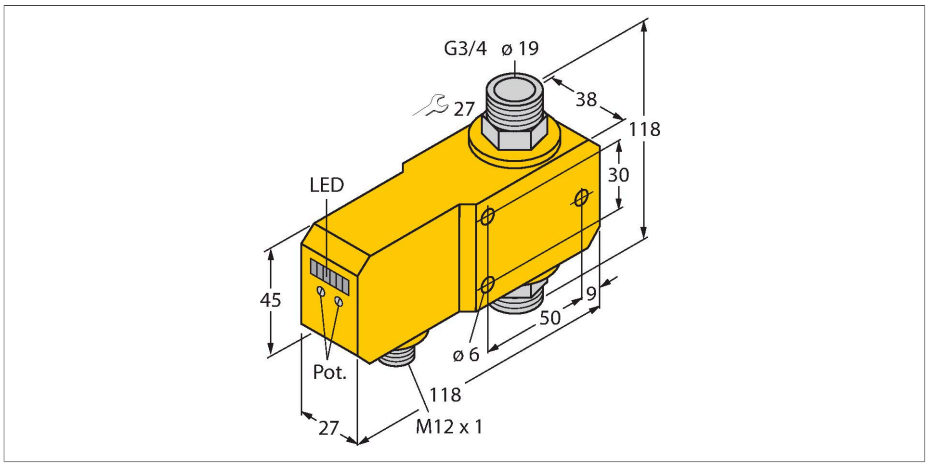
FCI-D20A4P-LIX-H1141
Flow Monitoring – Inline Sensor with Integrated Processor



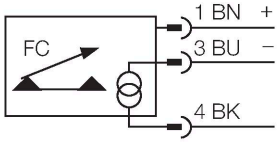
Features

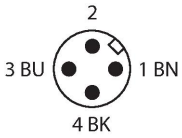
- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- Operating range 4…30 l/min
- DC 3-wire, 21.6…26.4 VDC
- 4…20 mA analog output
- Connector device, M12 × 1

Technical data

ID	6870673
Type	FCI-D20A4P-LIX-H1141
Mounting conditions	Inline sensor
Flow operating range	4…30 l/min
Stand-by time	5…15 s
Setting time	0.5…1 s
Temperature gradient	≤ 400 K/min
Medium temperature	0…+80 °C
Ambient temperature	0…+60 °C
Electrical data	
Operating voltage	21.6…26.4 VDC
Current consumption	≤ 50 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4…20 mA
Load	200…500 Ω
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
Pressure resistance	20 bar
Process connection	G 3/4"
Flow state display	LED chain, red (1x), green (5x)

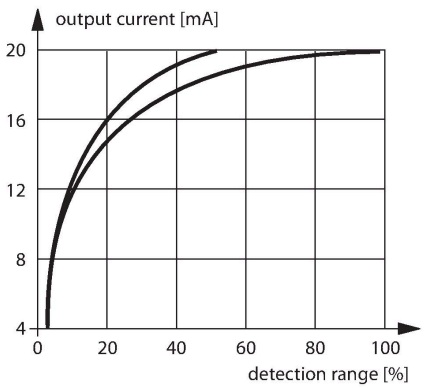
Wiring diagram





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

LED display	red = 4 mA 1x green > 4 mA 2x green > 8 mA 3x green > 12 mA 4x green > 16 mA 5x green = 20 mA

Tests/approvals	
Approvals	cULus
UL registration number	E210608