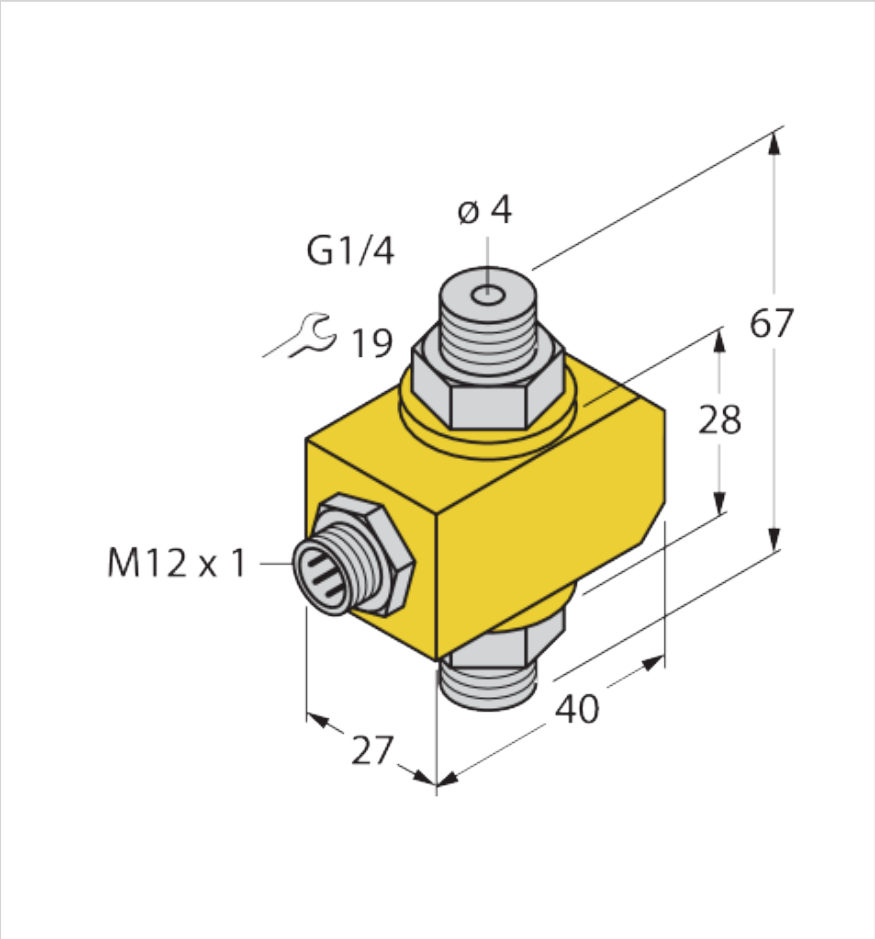
FCI-D04A4P-NA-H1141

Flow Monitoring
Inline Sensor without Integrated Processor



Typ	FCI-D04A4P-NA-H1141
Ident-No.	6870638

Technical data

General data	
Detection type	Calorimetric
Measuring principle	Calorimetric
Application area	
Application area	Standard
Medium temperature	0…+80 °C
Medium	liquids
Pressure resistance	20 bar

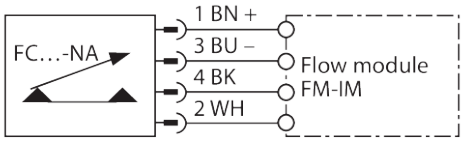
Features

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer on processor
- Status indicated via LED chain on signal processor
- Operating range 0.01…1 l/min
- Connector device, M12 × 1
- 4-wire connection to the processor

Technical data

Detection area/measuring range	
Flow operating range	0.01...1 l/min
Flow	
Temperature gradient	≤400 K/min
Electrical data	
Stand-by time	5 s
Temperature jump, response time	max. 12 s
Outputs	
Switch-off time	0.5…1 s
Switch-on time	0.5…1 s
Mechanical data	
Design	Inline
Construction type designation	FS121
Dimensions	121,1 mm x 38 mm x 49 mm
Housing material	Plastic, PBT
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Process connection	G 1/4"
Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Mounting conditions	Inline sensor
Environmental conditions	
Ambient temperature	-20...+70 °C
Protection class	IP67
Displays/controls	
Display	4-digit 12-segment display, rotatable by 180°, red or green

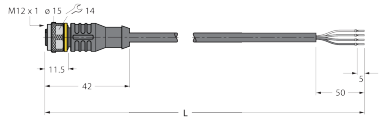
Wiring Diagram

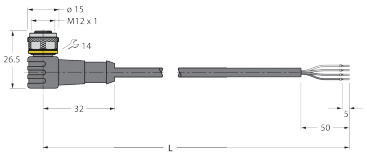


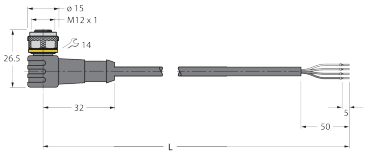
Functional principle

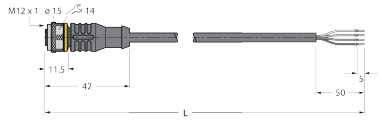
The function of the inline flow sensors is based on the thermo-dynamic principle. Heat is generated in a measuring tube and absorbed by the flowing medium. The transported heat loss is thus a measure of the flow speed. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid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

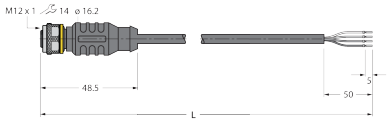
Connectivity accessories

RKC4.4T-2/TXL	6625503
	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval

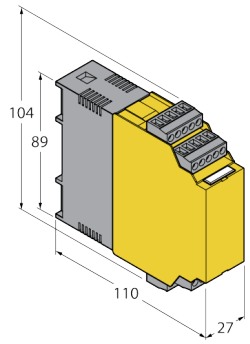
WKC4.4T-2/TXL	6625515
	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval

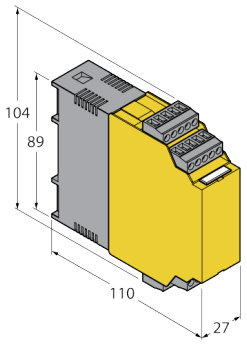
WKC4.4T-2/TEL	6625025
	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

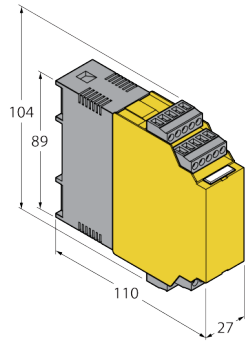
RKC4.4T-2/TEL	6625013
	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

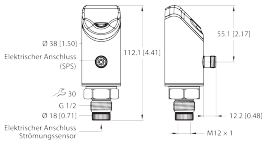
RKC4.4T-P7X2-10/TXL	6626184
	Connection cable, M12 female connector, straight, 4-pin, LED, cable length: 10 m, jacket material: PUR, black; cULus approval

Functional accessories

FM-IM-3UP63X	7525100
	Signal processor for non-Ex flow sensors from the FC….-NA… family; operating voltage 20…30 VDC; LED bar for displaying flow speed and medium temperature; IO-Link device with transistor outputs for flow, temperature and errors

FM-IM-3UR38X	7525102
	Signal processor for non-Ex flow sensors from the FC….-NA… family; operating voltage 20…250 VAC; LED bar for displaying flow speed and medium temperature; IO-Link device with transistor outputs for flow, temperature and errors

FM-IM-2UPLI63X	7525104
	Signal processor for non-Ex flow sensors from the FC….-NA… family; operating voltage 20…30 VDC; LED bar for displaying flow speed and medium temperature; IO-Link device with analog output for flow and transistor outputs for temperature and errors

FS121-2UPN8-H1141	100047864
	Signal processor for non-Ex flow sensors from the FP…-…-NA-…, FCS…NA…, FCI…NA… product series; operating voltage 17… 33 VDC; 12-segment display of flow rate and media temperature; IO-Link device with transistor outputs for flow and temperature