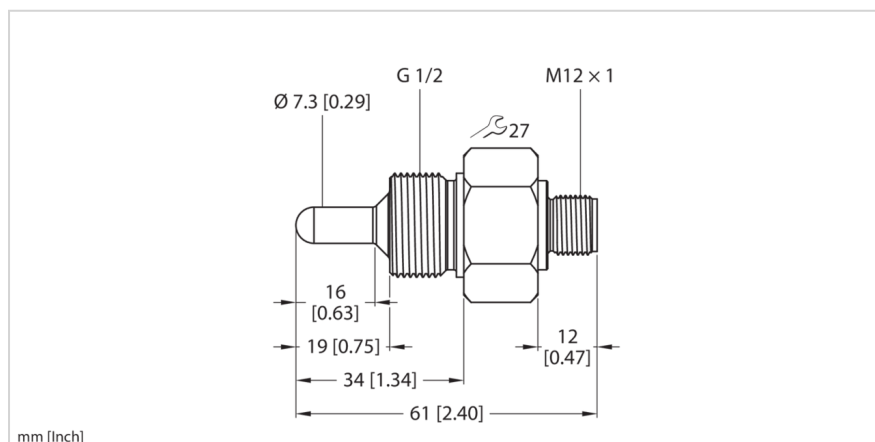


FCS-G1/2TN-NA-H1141

Flow Monitoring Immersion Sensor without Integrated Processor



Typ	FCS-G1/2TN-NA-H1141
Ident-No.	6870311

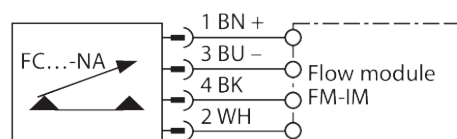
Technical data

General data	
Detection type	Calorimetric
Measuring principle	Calorimetric
Application area	
Application area	Standard
Medium temperature	-20...+80 °C
Medium	liquids
Pressure resistance	100 bar
Detection area/measuring range	
Water Operating Range	1...150 cm/s
Oil Operating Range	3...300 cm/s
Strömung	
Temperature gradient	≤250 K/min
Elektrische Daten	
Stand-by time	typ. 8 s (2...15 s)
Temperature jump, response time	max. 12 s
Ausgänge	
Switch-off time	typ. 2 s (1...15 s)

Features

- Sensor for liquid media
- Calorimetric functionality
- Adjustment via signal processor
- Status indicated via LED chain on signal processor
- Sensor made of Titanium with metal-ceramic coating
- Connector device, M12 × 1
- 4-wire connection to the processor

Wiring Diagram



Functional principle

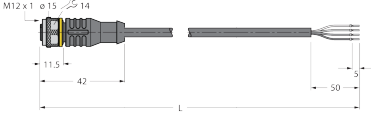
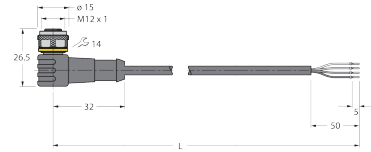
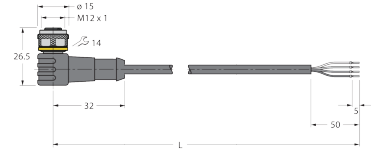
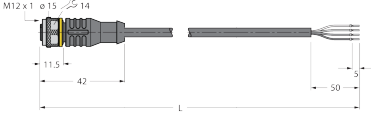
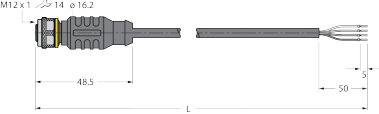
Our insertion - flow sensors operate on the principle of thermodynamics. The measuring probe is heated by several °C as against the flow medium. When fluid moves along the probe, the heat generated in the probe is dissipated. The resulting temperature is measured and compared to the medium temperature. The flow status of every

Technical data

Switch-on time	typ. 2 s (1...15 s)
Mechanische Daten	
Design	Immersion
Housing material	Metal, Titanium/metal ceramic (3.7035)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Process connection	G 1/2"
Mounting conditions	Immersion sensor
Sensor material	Metal, Titanium/metal ceramic (3.7035)
Umgebungsbedingungen	
Protection class	IP67

medium can be derived from the evaluated temperature difference. Thus TURCK's wear-free flow sensors reliably monitor the flow of gaseous and liquid media.

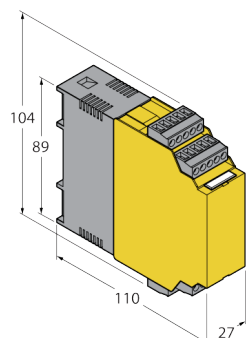
Connectivity accessories

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

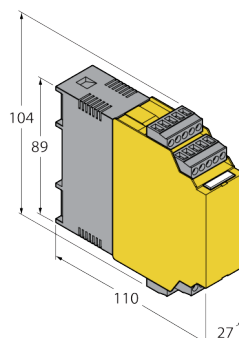
7525100



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

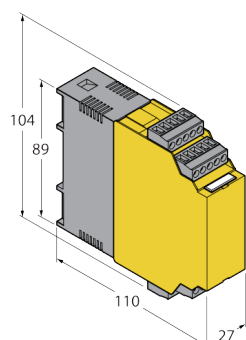
7525102



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