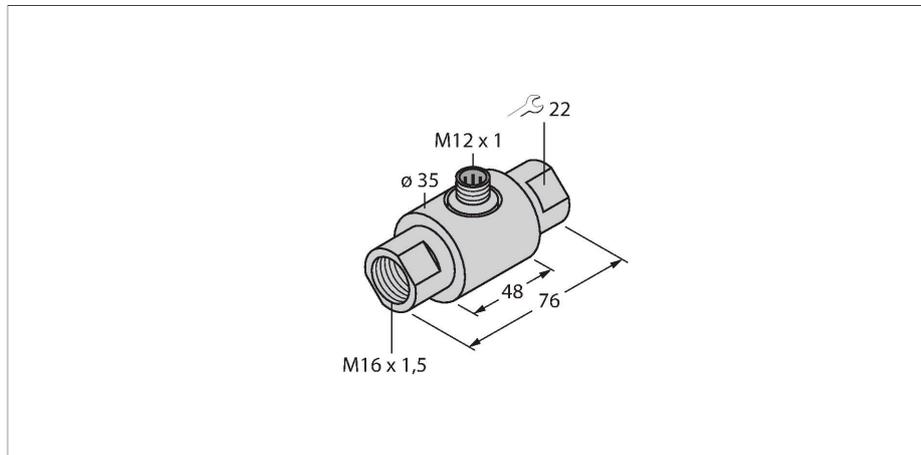


FCI-D09A4-NA-H1141/M16

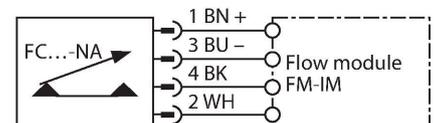
Flow Monitoring – Inline Sensor without Integrated Processor



Features

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

Wiring diagram



Technical data

| | |
|---------------------------------|--------------------------------------|
| ID | 6870631 |
| Type | FCI-D09A4-NA-H1141/M16 |
| Mounting conditions | Inline sensor |
| Flow operating range | 0.03...0.9 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 | -20...+80 °C |
| Ambient temperature | -20...+70 °C |
| Electrical data | |
| Protection class | IP67 |
| Mechanical data | |
| Design | Inline |
| Housing material | Stainless steel, 1.4571 (AISI 316Ti) |
| Sensor material | Stainless steel, 1.4571 (AISI 316Ti) |
| Electrical connection | Connector, M12 × 1 |
| Pressure resistance | 16 bar |
| Process connection | M16 × 1.5 |
| Tests/approvals | |

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.

Accessories

| Dimension drawing | Type | ID | |
|-------------------|---------------------|---------|---|
| | 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 |

Accessories

| Dimension drawing | Type | ID | |
|-------------------|-------------------|-----------|--|
| | 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 |

Dimension drawing

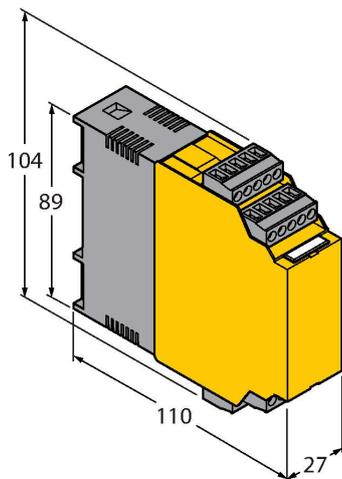
Type

ID

FM-IM-3UP63X

7525100

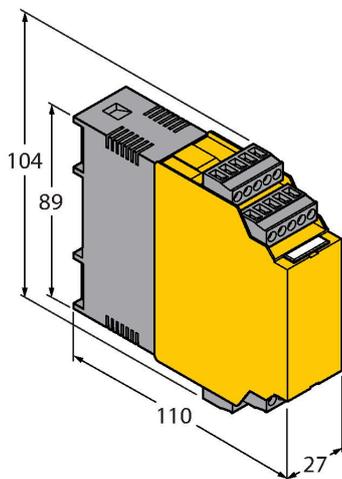
Signal processor for non-Ex flow sensors from the FC....-NA... family; operating voltage 20...30 VDC; LED bar for displaying flow speed and medium temperature; IO-Link device with transistor outputs for flow, temperature and errors



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

