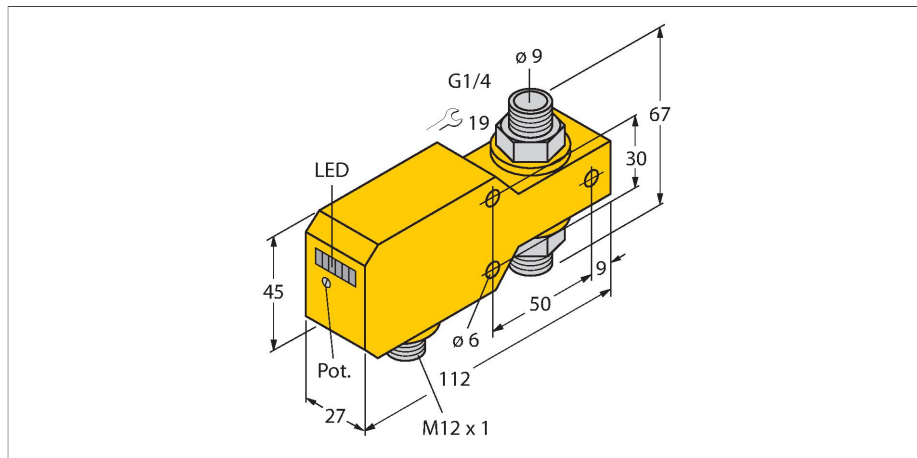


# FCI-D10A4P-LIX-H1141/A

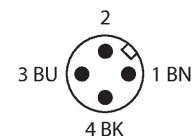
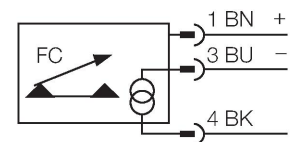
## Flow Monitoring – Inline Sensor with Integrated Processor



### Features

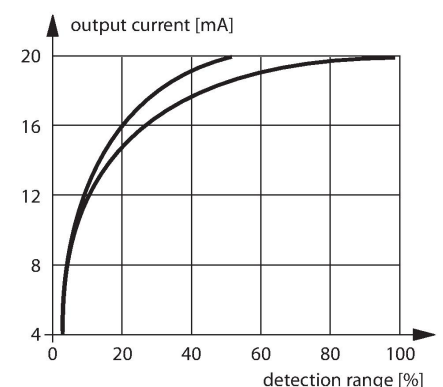
- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- Operating range 0.5...40 m/s
- DC 3-wire, 21.6...26.4 VDC
- 4...20 mA analog output
- Connector device, M12 × 1

### 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                                    | 6870639                              |
| Type                                  | FCI-D10A4P-LIX-H1141/A               |
| Mounting conditions                   | Inline sensor                        |
| Air Operating Range                   | 0.5...40 m/s                         |
| Stand-by time                         | 10...30 s                            |
| Setting time                          | 10...20s                             |
| Temperature gradient                  | ≤ 20 K/min                           |
| Medium temperature                    | 0...+80 °C                           |
| Ambient temperature                   | 0...+60 °C                           |
| <b>Electrical data</b>                |                                      |
| 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                                 |
| <b>Mechanical data</b>                |                                      |
| 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 1/4"                               |
| Flow state display                    | LED chain, red (1x), green (5x)      |

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    |       |