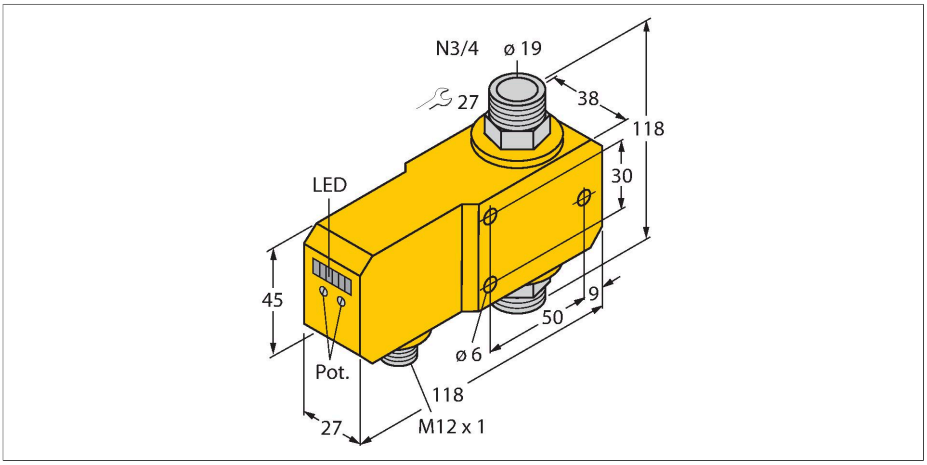
# FCI-N3/4D20A4P-ARX-H1140
# Flow Monitoring – Inline Sensor with Integrated Processor



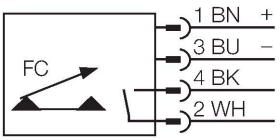

## Technical data

| | |
|---|---|
| ID | 6870677 |
| Type | FCI-N3/4D20A4P-ARX-H1140 |
| **Mounting** | Inline sensor |
| Flow operating range | 4…30 l/min |
| Stand-by time | 5…15 s |
| Switch-on time | 0.5…1 s |
| Switch-off time | 0.5…1 s |
| Temperature gradient | ≤ 400 K/min |
| Medium temperature | 0…+80 °C |
| Ambient temperature | 0…+60 °C |
| **Electrical data** | |
| Operating voltage $U_B$ | 21.6…26.4 VDC |
| Current consumption | ≤ 50 mA |
| Output function | Relay output, NO contact |
| Rated operational current | 1 A |
| Short-circuit protection | no |
| Reverse polarity protection | yes |
| AC switching voltage | 30 VAC |
| DC switching voltage | 36 VDC |
| Protection class | IP67 |
| **Mechanical data** | |
| Design | Inline |
| Housing material | Plastic, PBT |
| Sensor material | Stainless steel, 1.4571 (AISI 316Ti) |

## Features

- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- Operating range 4…30 l/min
- DC 4-wire, 21.6…26.4 VDC
- NO contact, relay output
- Plug-in device, M12 x 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

| | |
|---|---|
| Max. tightening torque of housing nut | 30 Nm |
| Electrical connection | Connector, M12 × 1 |
| Process Pressure | 20  bar |
| Process connection | 3/4" NPT |
| Switching state | LED chain, Green/yellow/red |
| Flow state display | LED chain |
| Indication: Drop below setpoint | LED Red |
| Indication: Setpoint reached | LED Yellow |
| Indication: Setpoint exceeded | 4 × LEDs Green |
| Tests/approvals | |