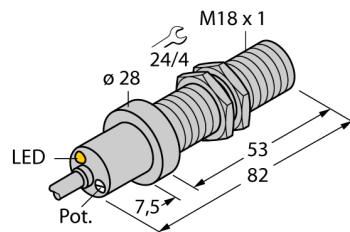


Flow monitoring

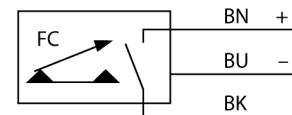
Immersion sensor with integrated processor

FCS-M18-AP8X/D045



- Sensor for gaseous media
- Calorimetric principle
- Adjustments via potentiometer
- Status display via 2-color LED
- Chrome-plated brass sensor
- With metal joint
- Marking of individual conductors
- 3-wire DC, 19.2...28.8 VDC
- NO contact, PNP output
- Cable device

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 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.

| | |
|-----------------------------|-----------------------------|
| Type code | FCS-M18-AP8X/D045 |
| Ident-No. | 6870726 |
| Ident-No (TUSA) | M6870726 |
| Mounting | insertion style sensor |
| Air Operating Range | 0.5...15 m/s |
| Switch-on time | typ. 2 s (1...20 s) |
| Switch-off time | typ. 2 s (1...20 s) |
| Temperature gradient | ≤ 200 K/min |
| Medium temperature | -20...70 °C |
| Operating voltage | 19.2... 28.8VDC |
| Output function | PNP, NO contact |
| Rated operational current | 0.4 A |
| Short-circuit protection | yes |
| Reverse polarity protection | yes |
| IP Rating | IP67 |
| Housing material | metal, CuZn |
| Sensor material | brass, brass, nickel-plated |
| Connection | cable |
| Cable length | 0.3 m |
| Cable cross section | 3 x 0.5 mm ² |
| Pressure resistance | 3 bar |
| Process connection | M18 x 1 |
| Switching state | 2-color LED red / green |