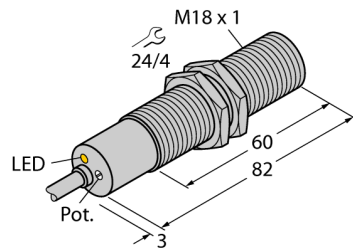


Flow Monitoring

Immersion sensor with integrated processor

FCS-M18-AN8X



- Sensor for gaseous media
- Calorimetric principle
- Adjustments via potentiometer
- 3-wire DC, 21...26 VDC
- NO contact, NPN output
- Cable device

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 designation	FCS-M18-AN8X
Ident-No.	6870715
Ident-No (TUSA)	M6870715
Mounting	Immersion 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
Ambient temperature	0...+60 °C
Operating voltage	19.2...28.8 VDC
Output function	NPN, NO contact
Rated operational current	0.4 A
Voltage drop at I _a	≤ 1.5 V
Short-circuit protection	yes
Reverse polarity protection	yes
Protection class	IP67
Housing material	Metal, CuZn
Sensor material	brass, brass, nickel-plated
Electrical connection	Cable
Cable length	2 m
Cable cross section	3 x 0.25 mm ²
Process connection	M18 x 1
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 x LEDs green