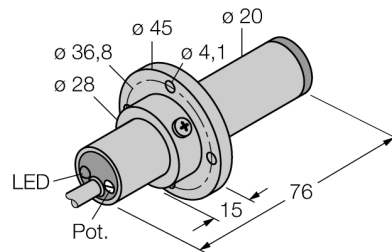
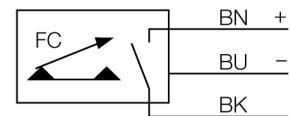


Flow sensor
Immersion sensor with integrated processor
FCS-K20-AP8X



- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- Mounting flange, plastic, included
- Status display via 2-color LED
- Plastic sensor housing
- 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-K20-AP8X
Ident no.	6870702
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
Protection class	IP67
Housing material	Plastic, PBT
Sensor material	plastic, PBT-GF30-V0
Connection	cable
Cable length	2 m
Cable cross section	3 x 0.5 mm ²
Pressure resistance	1 bar
Mechanical connection	PVC, flange
Switching state	2-color LED red / green