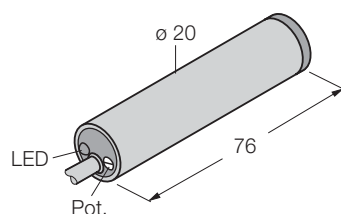


**TURCK**Industrial
Automation

flow sensor

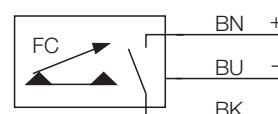
insertion style sensor with integrated processor

FCS-K20-AP8X



- flow sensor for gaseous media
- calorimetric function principle
- adjustment via potentiometer
- status display via dual colour LED
- plastic sensor housing
- 3-wire DC, 19.2...28.8 VDC
- normally open, pnp output
- cable device

Wiring diagram



Functional principle

The function of our insertion flow sensors is based on the thermo-dynamic principle. The measuring probe is heated by several °C compared to the flow medium. When fluid moves along the probe, the heat generated in the probe is conducted away from the sensor. 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	FCS-K20-AP8X
Ident-No.	6870702
Air operating range [m/s]	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, normally open
Rated operational current	0.4A
Short-circuit protection	yes
Reverse polarity protection	yes
Degree of protection	IP67
Housing material	plastic, PBT-GF30-V0
Sensor material	plastic, PBT-GF30-V0
Connection	cable
Cable length	2 m
Cable cross section:	3 x 0.5mm ²
Pressure resistance	1 bar
Mechanical connection	PVC, flange
Display switch state	dual colour LED red / green