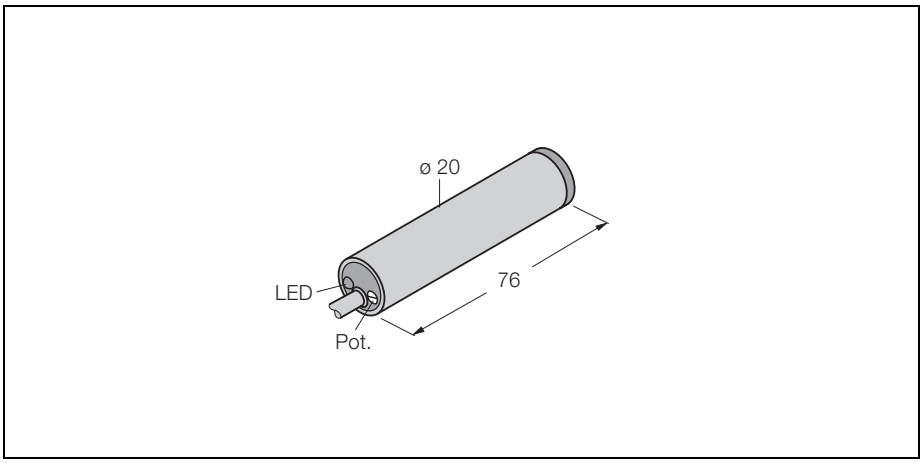
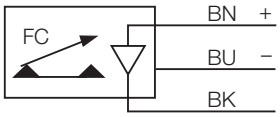
flow sensor
insertion style sensor with integrated processor
FCS-K20-LIX



- **flow sensor for gaseous media**
- **calorimetric function principle**
- **adjustment via potentiometer**
- **power ON indication via LED**
- **plastic sensor housing**
- **3-wire DC, 21…26 VDC**
- **4…20 mA analogue output**
- **cable device**

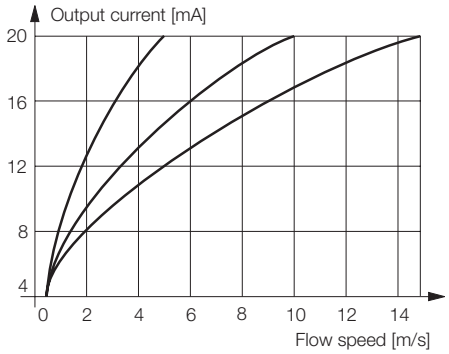
Type	FCS-K20-LIX
Ident-No.	6870703
Air operating range [m/s]	0.5… 15 m/s
Setting time	typ. 2 s (1...20 s)
Temperature gradient	≤ 200 K/min
Medium temperature	-20… 70°C
Operating voltage	21… 26VDC
Output function	analogue output, 4…20 mA
Short-circuit protection	yes
Reverse polarity protection	yes
current output	4… 20 mA
Load	≤ 500 Ω
Degree of protection	IP67
Housing material	plastic, PBT-GF30-V0
Sensor material	plastic, PBT-GF30-V0
Connection	cables
Cable length	2 m
Cable cross section:	3 x 0.5mm^2
Pressure resistance	1 bar
Mechanical connection	PVC, flange
Power on display	LED, green

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.



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