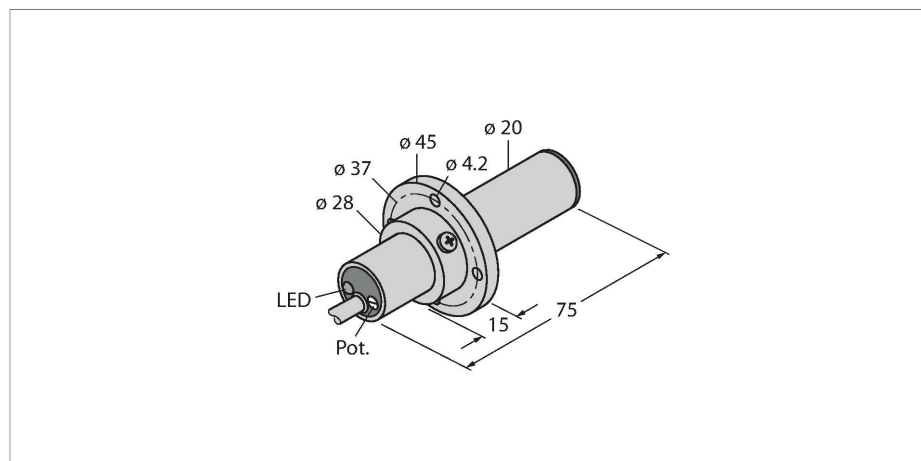


# FCS-K20-LIX

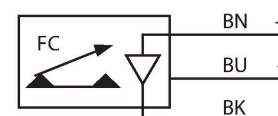
## Flow Monitoring – Immersion Sensor with Integrated Processor



### Features

- Flow sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer
- Mounting flange, plastic, included
- LED "power on" indication
- Plastic sensor housing
- DC 3-wire, 19.2...28.8 VDC
- 4...20 mA analog output

### Wiring diagram

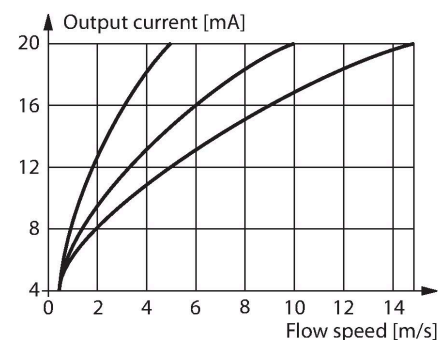


### Technical data

ID no.	6870703
Type	FCS-K20-LIX
<b>Mounting</b>	<b>Immersion sensor</b>
Air Operating Range	0.5...15 m/s
Stand-by time	20...40 s
Setting time	typ. 2 s
Temperature gradient	≤ 200 K/min
Medium temperature	-20...+70 °C
Ambient temperature	-20...+70 °C
<b>Operating voltage</b>	<b>19.2...28.8 VDC</b>
Current consumption	≤ 70 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4...20 mA
Load	200...500 Ω
Protection class	IP67
Design	Immersion
<b>Housing material</b>	<b>Plastic, PBT-GF30-V0</b>
Sensor material	Plastic, PBT-GF30-V0
Electrical connection	Cable
Cable length (L)	2 m
Core cross-section	3 x 0.5 mm <sup>2</sup>
Process Pressure	1 bar

### Functional principle

The function of immersion flow sensors is based on the thermodynamic principle. The sensor is heated up by a few degrees Celsius compared to the flow medium. If the medium flows past the sensor, the heat generated in the sensor is dissipated. The resulting temperature is measured and compared with the temperature of the medium. The flow condition of each medium can be derived from the temperature difference obtained. Thus, TURCK flow sensors reliably and wear-free monitor the flow of liquid or gaseous media.



FCS-K20-LIX | 11/10/2021 11-00 | technical changes reserved

## Technical data

Process connection	PVC flange
Power on display	LED, green
Tests/approvals	
Approvals	UL
UL registration number	E210608