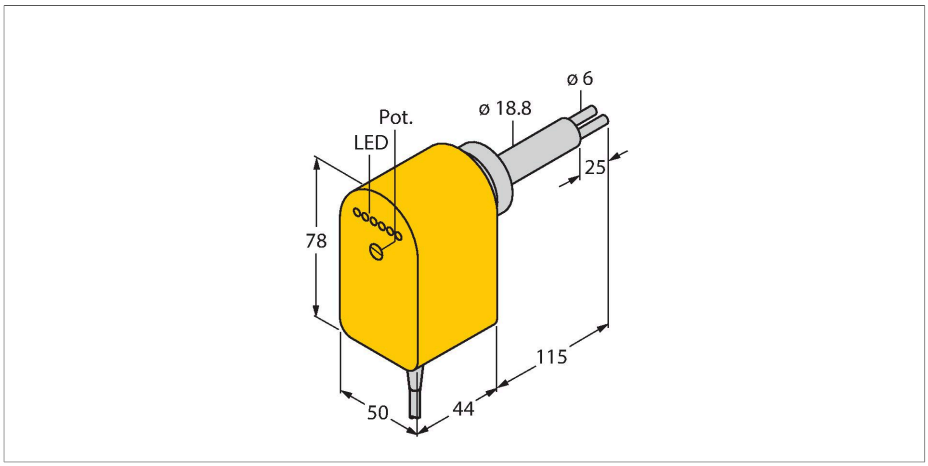
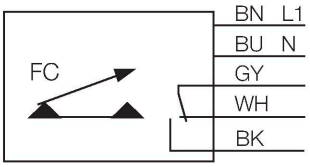
FCS-HA2P-VRX/230VAC/AL115
Flow Monitoring – Immersion Sensor with Integrated Processor



Features

- Sensor for gaseous media
- Calorimetric principle
- Adjustments via potentiometer
- Sensor length 115 mm
- AC 5-wire, 195…264 VAC
- Changeover contact, relay output
- Cable device

Wiring diagram



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.

Technical data

ID	6870724
Type	FCS-HA2P-VRX/230VAC/AL115
Mounting conditions	**Immersion sensor**
Air Operating Range	0.5…30 m/s
Stand-by time	10…60 s
Switch-on time	2…30 s
Switch-off time	5…30 s
Temperature gradient	≤ 20 K/min
Medium temperature	-20…+80 °C
Electrical data	
Operating voltage U_B	195…264 VAC
Current consumption	≤ 30 mA
Output function	Relay output, Complementary contact
Rated operational current	4 A
Short-circuit protection	no
AC switching voltage	250 VAC
DC switching voltage	60 VDC
Max. AC switching capacity	1000 VA
Max. DC switching capacity	60 W
Mechanical data	
Design	Immersion
Housing material	Plastic, PBT-GF30-V0
Sensor material	Stainless steel, 1.4305 (AISI 303)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Cable
Cable length	2 m

Technical data

Core cross-section	5 x 0.5 mm^2
Pressure resistance	3 bar
Process connection	G 1" female thread DIN 3852
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 × LEDs Green