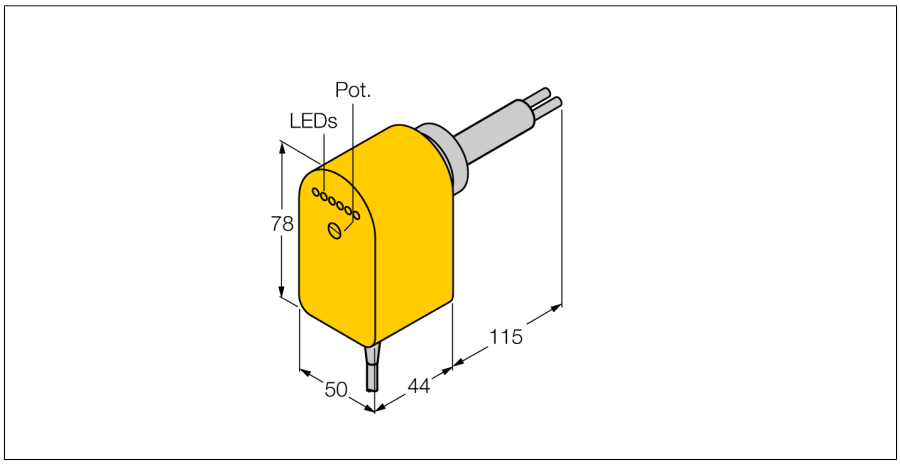
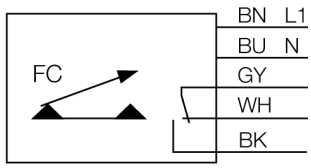
Flow sensor
Immersion sensor with integrated processor
FCS-HA2P-VRX/230VAC/AL115



- **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



Type code	FCS-HA2P-VRX/230VAC/AL115
Ident no.	6870724
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
Operating voltage	195…264 VAC
No-load current I_0	≤ 30 mA
Output function	Relay output, changover 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
Housing material	plastic, PBT
Sensor material	stainless steel, AISI 303
Max. tightening torque housing nut	100 Nm
Connection	cable
Cable length	2 m
Cable cross section	5 x 0.5 mm²
Pressure resistance	3 bar
Process connection	G 1" female thread acc. to DIN 3852
Switching state	LED chain green / yellow / red
Flow state display	LED chain, red (1x), green (5x)
Indication: Drop below setpoint	LED red
Indication: Setpoint reached	LED yellow
Indication: Setpoint exceeded	4 x LEDs green
LED display	red = 4 mA 1 x green > 4 mA 2 x green > 8 mA 3 x green > 12 mA 4 x green > 16 mA 5 x green = 20 mA

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.

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