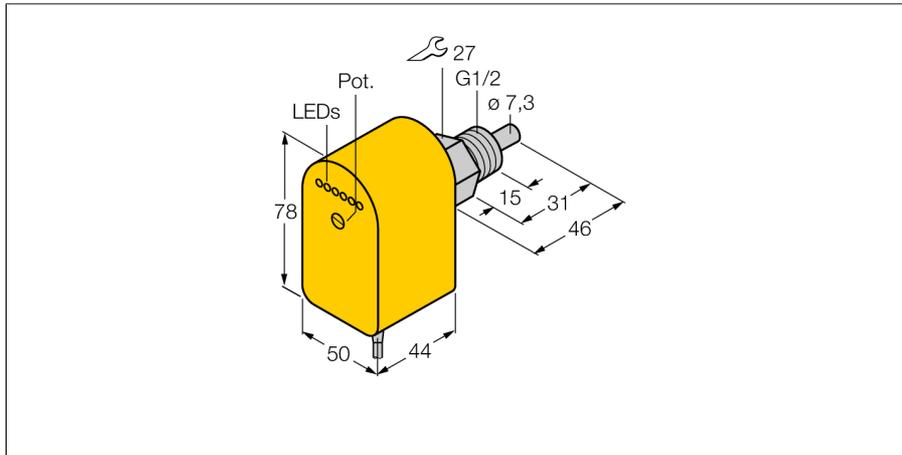
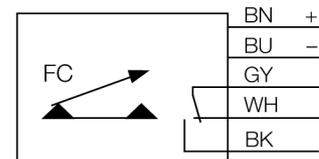


Flow monitoring
Immersion sensor with integrated processor
FCS-G1/2A4P-VRX/24VDC



- Flow sensor for liquid media
- Calorimetric principle
- Adjustment via potentiometer
- LED band
- 5-wire DC, 19.2...28.8 VDC
- Changeover contact, relay output
- Cable device

Wiring Diagram



Type designation FCS-G1/2A4P-VRX/24VDC
Ident no. 6870096

Mounting conditions insertion style sensor
Water Operating Range 1...150cm/s
Oil Operating Range 3...300 cm/s
Stand-by time typ. 8 s (2...15 s)
Switch-on time typ. 2 s (1...15 s)
Switch-off time typ. 2 s (1...15 s)
Temperature jump, response time max. 12 s
Temperature gradient ≤ 250 K/min
Medium temperature -20...80 °C

Operating voltage 19.2... 28.8VDC
Current consumption ≤ 80 mA
Output function Relay output, complementary
Rated operational current 4 A
Short-circuit protection no
Reverse polarity protection yes
AC switching voltage 250 VAC
DC switching voltage 60 VDC
Max. AC switching capacity 1000 VA
Max. DC switching capacity 60 W
Protection class IP68

Housing material Plastic, PBT
Sensor material stainless steel, AISI 316Ti
Max. tightening torque housing nut 30 Nm
Electrical connection cable
Cable length 2 m
Cable cross section 5 x 0.5 mm²
Pressure resistance 100 bar
Process connection G 1/2"

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 x LEDs green

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.