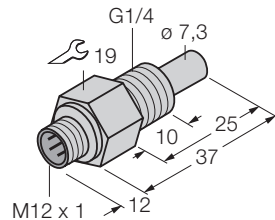


flow sensor

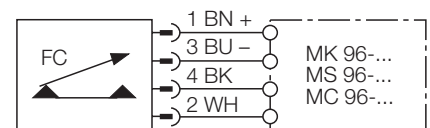
insertion style sensor without integrated processor

FCS-G1/4A4-NA-H1141



- flow sensor for liquid media
- calorimetric function principle
- adjustment via potentiometer on processor
- status display via LED chain on processor
- connector, M12 x 1
- 4-wire connection to the processor

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.

Type	FCS-G1/4A4-NA-H1141
Ident-No.	6870304

Water operating range [cm/s]	1... 150 cm/s
Oil operating range [cm/s]	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 change reaction time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	-20... 80°C

Degree of protection	IP67
-----------------------------	------

Housing material	stainless steel, AISI 316Ti
Sensor material	stainless steel, AISI 316Ti
Tightening torque of housing nut	max. 100 Nm
Connection	Connectors, M12 x 1
Pressure resistance	100 bar
Mechanical connection	G 1/4"