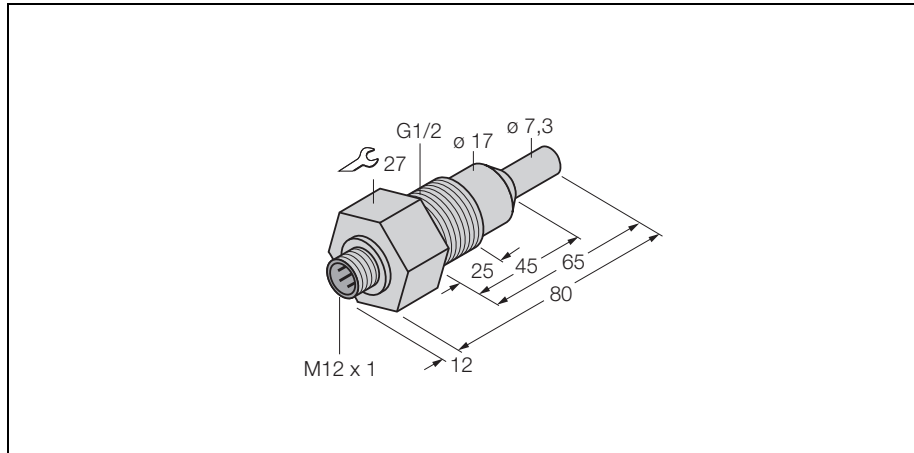
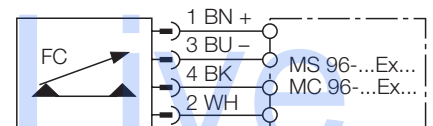


flow sensors insertion style sensor without separate processor FCS-G1/2A4-NAEX-H1141/AL065



- intrinsically safe flow sensor for gaseous media
- calorimetric function principle
- adjustment via potentiometer located on the intrinsically safe processor
- status display via LED chain on processor
- sensor length: 65 mm
- intrinsically safe EEx ib IIC T6, for use in explosion hazardous zone 1
- connector, M12 x 1
- 4-wire connection to an intrinsically safe processor

Wiring diagram



Function principles

TURCK's wear-free flow controls reliably monitor the flow of gaseous and liquid media. The calorimetric operation principle of the sensors is based on the heat transport/heat loss principle, i.e., when fluid moves over the heated sensing probe, heat is conducted away from the sensor. The heat loss is thus a measure of the flow speed.

Type	FCS-G1/2A4-NAEX-H1141/AL065
Ident-No.	6870333
Mounting mode	Insertion-style-sensor
Operating range air [m/s]	2... 20 m/s
Availability	10...40 s
Response time to change in temperature	max. 120 s
Temperature gradient	≤ 1 K/min
Medium temperature	-20... 85 °C
Type of protection (CENNELEC)	EEx ib IIC T6
Max. power accord. to approval P _i	≤ 0,69W
Internal inductances/capacitances	negligibly small
Approval	TÜV 99 ATEX 1518
Degree of protection	IP67
Housing material	metal, A4 1.4571 (AISI 316Ti)
Sensor material	Stainless steel, A4 (1.4571)
Max. fixing torque of coupling nut	max. 100 Nm
Wiring	connector, M12 x 1
Pressure resistance	10 bar
Mechanical connection	G1/2