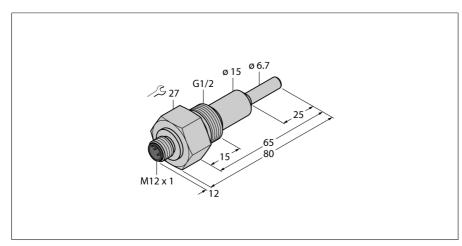
Flow monitoring Immersion sensor without integrated processor FCS-G1/2A4-NAEX/A/L065

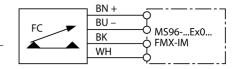




Type code Ident-No. Ident-No (TUSA)	FCS-G1/2A4-NAEX/A/L065 6870324 M6870324	
Mounting	insertion style sensor	
Air Operating Range	220 m/s	
Stand-by time	1040 s	
Temperature jump, response time	max. 120 s	
Temperature gradient	≤ 1 K/min	
Medium temperature	-2085 °C	
Device designation	€ II 2 G EEx ib IIC T6	
gnition protection category	Ex ib IIC	
PowerP _i	≤ 0.69 W	
Internal inductances/capacitances	negligibly small	
Ex approval acc. to conformity certificate	TÜV 99 ATEX 1518	
P Rating	IP68	
Housing material	stainless steel, V4A (1.4571)	
Sensor material	stainless steel, AISI 316Ti	
Max. tightening torque housing nut	30 Nm	
Connection	PUR cable	
Cable length	2 m	
Cable cross section	4 x 0.25 mm ²	
Pressure resistance	10 bar	
100001010000		

- ATEX category II 2 G, Ex Zone 1
- Ex sensor for gaseous media
- Calorimetric principle
- Adjustment via potentiometer at Ex signal processor
- Status indicated via LED chain on signal processor
- Sensor length 65 mm
- EEx ib IIC T6 (use in zone 1)
- 4-wire connection to EX0 processor
- Cable device

Wiring diagram



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.

Flow monitoring Immersion sensor without integrated processor FCS-G1/2A4-NAEX/A/L065



Operating manual

Intended use

This device fulfils the directive 94/9/EC and is suited for use in explosion hazardous areas according to EN50014 and EN50020. In order to ensure correct operation to the intended purpose it is required to observe the national regulations and directives.

For use in explosion hazardous areas conform to classification

II 2 G (Group II, Category 2 G, electrical equipment for gaseous atmospheres).

Marking (see device or technical data sheet)

Installation / Commissioning

These devices may only be installed, connected and operated by trained and qualified staff. Qualified staff must have knowledge of protection classes, directives and regulations concerning electrical equipment designed for use in explosion hazardous areas.

Please verify that the classification and the marking on the device comply with the actual application conditions.

This device is only suited for connection to approved Exi circuits compliant to EN60079-0 and -11. Please observe the maximum admissible electrical values.

After connection to other circuits the sensor may no longer be used in Exi installations. When interconnected to (associated) electrical equipment, it is required to perform the "Proof of intrinsic safety" (EN60079-14).

Installation and mounting instructions

Avoid static charging of cables and plastic devices. Please only clean the device with a damp cloth. Do not install the device in a dust flow and avoid build-up of dust deposits on the device.

If the devices and the cable could be subject to mechanical damage, they must be protected accordingly. They must also be shielded against strong electro-magnetic fields.

The pin configuration and the electrical specifications can be taken from the device marking or the technical data sheet.

In order to avoid contamination of the device, please remove possible blanking plugs of the cable glands or connectors only shortly before inserting the cable or opening the cable socket.

service / maintenance

Repairs are not possible. The approval expires if the device is repaired or modified by a person other than the manufacturer. The most important data from the approval are listed.