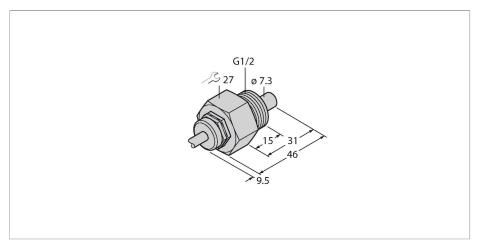


FCS-G1/2A4-NAEX0

Flow Monitoring – Immersion Sensor without Integrated Processor



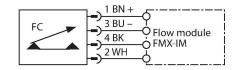
Technical data

.,,,,	S-G1/2A4-NAEX0
Mounting conditions Imm	mersion sensor
Water Operating Range 1	100 cm/s
Oil Operating Range 3	200 cm/s
Minimum immersion depth ≥ 15	5 mm
Stand-by time typ.	. 8 s (218 s)
Switch-on time typ.	. 2 s (113 s)
Switch-off time typ.	. 2 s (113 s)
Temperature jump, response time max	x. 12 s
Temperature gradient ≤ 25	50 K/min
Medium temperature -20.	+60 °C
Electrical data	
fied	Ex applications, the values speci- d in the corresponding Ex certificates EX, IECEx, UL, etc.) apply.
EX	II 1 G Ex ia IIC T6T3 Ga II 1/2 G Ex ia IIC T6T3 Ga/Gb II 1 D Ex ia IIIC T125 °C Da
Ignition protection category Gas	s Ex ia IIC; dust Ex ia IIIC
Power ≤ 0.	.69 W
Internal capacitance (C _i)/inductance (L _i) 0.27	7 nF/1.3 μH
Ex approval acc. to conformity certificate TÜV	V 99 ATEX 1517X
Protection class IP6	7
Mechanical data	
Design Imm	mersion
Housing material Stai	inless steel, 1.4571 (AISI 316Ti)

Features

- Ex sensor for liquid media
- Calorimetric functionality
- Adjustment via Ex signal processor
- Status indicated via LED chain on signal processor
- Cable device
- ■4-wire connection to an Ex0 processor
- ■ATEX category II 1/2 G, Ex-zone 0
- ■ATEX category II 1 D, Ex zone 20

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.



Technical data

Sensor material	Stainless steel, 1.4571 (AISI 316Ti)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Cable
Cable length	2 m
Cable quality	Blue
Cable Jacket Material	PUR
Core cross-section	4 x 0.25 mm ²
Permissible ambient pressure for the device in explosive atmospheres	0.81.1 bar absolute
Pressure resistance	60 bar
Process connection	G 1/2"
Included in delivery	2 × AFM 34 G1/2 flat seal
Tests/approvals	
Approvals	ATEX CE UKCA GOST

Accessories

Dimension drawing
104

Туре	ID
EMA IM 31 ID83A	7525101

Ex signal processor for Ex flow sensors from the FC...-NAEX... product series; operating voltage 20...30 VDC; LED bar for displaying flow speed and medium temperature; IO-Link device with transistor outputs for flow, temperature and errors

