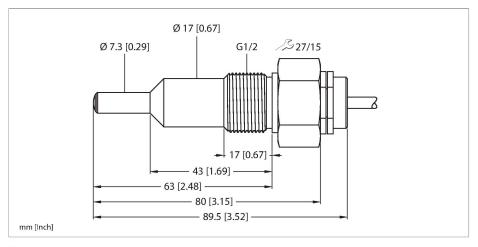


FCS-G1/2HC4-NAEX0/L065 Flow Monitoring – Immersion Sensor without Integrated Processor



6070255



ın

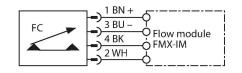
ID	6870355
Туре	FCS-G1/2HC4-NAEX0/L065
Mounting conditions	Immersion sensor
Water Operating Range	1100 cm/s
Oil Operating Range	3200 cm/s
Minimum immersion depth	≥ 15 mm
Stand-by time	typ. 8 s (218 s)
Switch-on time	typ. 2 s (113 s)
Switch-off time	typ. 2 s (113 s)
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	-20+60 °C
Electrical data	
Important note	For intrinsically safe applications, the values specified in the corresponding Ex certificates (ATEX, IECEX, UL, etc.) apply.
Device marking	
Ignition protection category	Gas Ex ia IIC; dust Ex ia IIIC
Power	≤ 0.69 W
Internal capacitance (C _i)/inductance (L _i)	0,27 nF / 1,3 μH
Ex approval acc. to conformity certificate	TÜV 99 ATEX 1517X
Protection class	IP67
Mechanical data	
Design	Immersion



Features

- ■Ex sensor for liquid media
- Calorimetric functionality
- ■Adjustment via Ex signal processor
- Status indicated via LED chain on signal processor
- Sensor made of Hastelloy C4
- Sensor length 65 mm
- 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

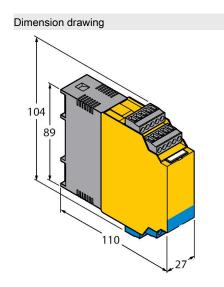
Our insertion - flow sensors operate on the principle of thermodynamics. The measuring probe is heated by several °C as against the flow medium. When fluid moves along the probe, the heat generated in the probe is dissipated. The resulting temperature is measured and compared to the medium temperature. 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

Housing material	Metal, Hastelloy C4 (2.4610)
Sensor material	Metal, Hastelloy C4 (2.4610)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Cable
Cable length	2 m
Cable quality	Blue
Cable Jacket Material	FEP
Core cross-section	4 x 0.25 mm²
Zulässiger Umgebungsdruck bei explosionsfähiger Atmosphäre für das Gerät	0.81.1 bar absolut
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



Type ID FMX-IM-3UP63X 7525101

Ex signal processor for Ex flow sensors from the FC....-NAEX... family; 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

