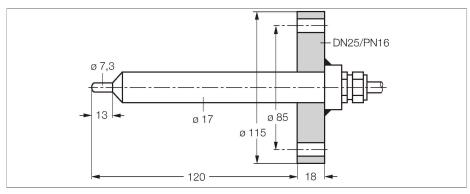


FCS-DN25A4-NAEX0/L120/D079/D024 Flow Monitoring – Immersion Sensor without Integrated Processor



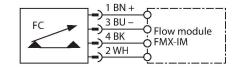
Technical data

ID	6870399
Туре	FCS-DN25A4-NAEX0/L120/D079/D024
Special version	D024 corresponds to: Re-stamping acc. to DIN 50 049 3.1
Mounting conditions	Immersion sensor
Water Operating Range	1100 cm/s
Oil Operating Range	3200 cm/s
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	 ⊞ 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 Ex ia IIC; dust Ex ia IIIC
Power	≤ 0.69 W
Internal capacitance (C _i)/inductance (L _i)	Negligibly small
Ex approval acc. to conformity certificate	TÜV 99 ATEX 1517X
	10V 99 ATEX 1517X
Protection class	IP67
Protection class Mechanical data	
Mechanical data	IP67
Mechanical data Design	IP67 Immersion

Features

- Ex sensor for liquid media
- Calorimetric functionality
- Adjustment via Ex signal processor
- Status indicated via LED chain on signal
- Sensor length 120 mm
- Sensor flange DN25
- Acceptance test certificate 3.1 (EN 10204)
- 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

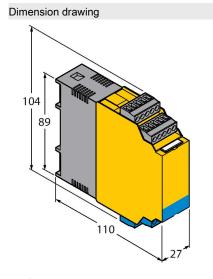
Our insertion - flow sensors operate on the principle of thermodynamics. The measuring probe is heated by several °C as against the flow medium. When fluid moves along the probe, the heat generated in the probe is dissipated. The resulting temperature is measured and compared to the medium temperature. The flow status of every medium can be derived from the evaluated temperature difference. Thus TURCK's wearfree flow sensors reliably monitor the flow of gaseous and liquid media.



Technical data

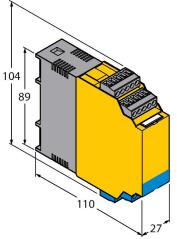
Electrical connection	Cable
Cable length	2 m
Cable quality	Blue
Cable Jacket Material	PUR
Core cross-section	4 x 0.25 mm ²
Pressure resistance	60 bar
Process connection	Receptacle

Accessories



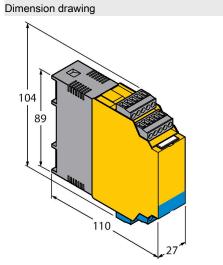
Type ID FMX-IM-3UP63X 7525101

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



FMX-IM-3UR38X 7525103

Ex signal processor for Ex flow sensors from the FC....-NAEX... family; operating voltage 20...250 VAC; LED bar for displaying flow speed and medium temperature; IO-Link device with relay outputs for flow, temperature and errors



Type ID FMX-IM-2UPLI63X 7525105

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; HART device with analog output for flow and transistor outputs for temperature and errors