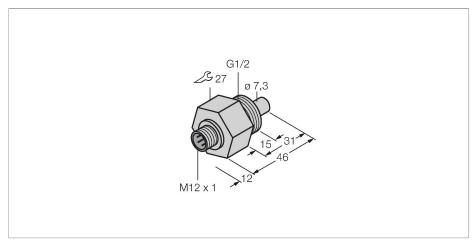


# FCS-G1/2TN-NA-H1141

# Flow Monitoring – Immersion Sensor without Integrated Processor



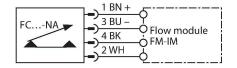
#### Technical data

ID	6870311
Туре	FCS-G1/2TN-NA-H1141
Mounting conditions	Immersion sensor
Water Operating Range	1150 cm/s
Oil Operating Range	3300 cm/s
Stand-by time	typ. 8 s (215 s)
Switch-on time	typ. 2 s (115 s)
Switch-off time	typ. 2 s (115 s)
Temperature jump, response time	max. 12 s
Temperature gradient	≤ 250 K/min
Medium temperature	-20+80 °C
Electrical data	
Protection class	IP67
Mechanical data	
Design	Immersion
Housing material	Metal, Titanium/metal ceramic (3.7035)
Sensor material	Metal, Titanium/metal ceramic (3.7035)
Max. tightening torque of housing nut	30 Nm
Electrical connection	Connector, M12 × 1
Pressure resistance	100 bar
Process connection	G 1/2"

#### **Features**

- Sensor for liquid media
- Calorimetric functionality
- ■Adjustment via signal processor
- Status indicated via LED chain on signal processor
- Sensor made of Titanium with metal-ceramic coating
- Connector device, M12 × 1
- ■4-wire connection to the processor

#### 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.



### Accessories

Dimension drawing		Туре	ID	
M12×1 0 15 1/2 14  11.5 + 42 - L	50-50	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12x1 26.5 32	50	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12×1 26.5 14	50	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12 x 1 0 15 1/2 14  + 11.5 + 42 - + L	50	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12x1	50	RKC4.4T-P7X2-10/TXL	6626184	Connection cable, M12 female connector, straight, 4-pin, LED, cable length: 10 m, jacket material: PUR, black; cULus approval

## TURCK

#### Accessories

