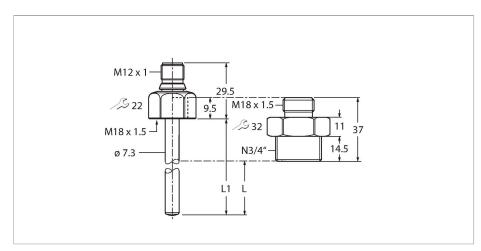


# FP100-300L-34-NA-H1141 Flow Meter - Immersion Sensor without Integrated **Processing Unit**



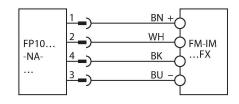
#### Technical data

Туре	FP100-300L-34-NA-H1141	
ID	100001048	
Medium temperature	-25+85 °C	
Application area		
Mounting conditions	Immersion sensor	
Application area	liquids	
Bar length (L1)	45 mm	
Immersion depth (L)	16.9 mm, When using the supplied adapter	
Pressure resistance	300 bar	
Response time T09	6 s	
Response time T05	3 s	
Standard flow range	3300 cm/s	
	Any axial alignment of the sensor rod in the medium	
Extended flow range	1300 cm/s	
Extended flow range comment	Directed inflow to punch mark ±20 °	
Temperature gradient	≤ 300 K/min	
Mechanical data		
Housing material	Stainless steel, 1.4571 (AISI 316Ti)	
Adapter material	Stainless steel 1.4571 (316Ti)	
Materials (contact with media)	Stainless steel 1.4571 (AISI 316Ti), FKM O-ring	
Process connection sensor	M18 x 1.5 female thread	
Process connection adapter	M18 × 1.5 male thread; 3/4" NPT male thread	
Electrical connection	Connector, M12 × 1	

#### **Features**

- ■Screw-in adapter with process connection NPT 3/4" male thread included in delivery
- Housing material: 1.4571 (316Ti)
- ■Immersion depth 16.9 mm
- Flow monitoring for liquid media
- ■Protection classes IP66, IP67 and IP69K
- Connector, M12 × 1

## Wiring diagram





# Functional principle

The flow sensor functions according to the calorimetric principle. The distinctive feature of this principle is that the flow rate correlates directly to the thermal loss of energy in the probe. The increased loss of energy is therefore a direct measure of an increased flow rate.

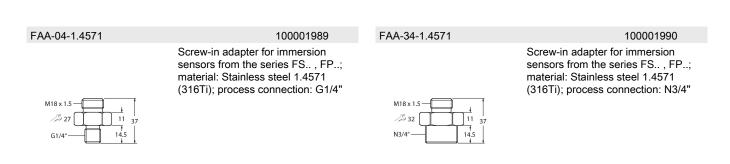


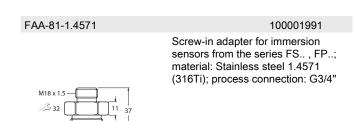
# Technical data

Protection class	IP66 IP67 IP69K	
Environmental conditions		
Ambient temperature	-40+85 °C	
Storage temperature	-40+80 °C	
Shock resistance	50 g (11 ms) DIN EN 60068-2-27	
Vibration resistance	20 G (552000 Hz)DIN EN 60068-2-6	
Tests/approvals		
Approvals	CE cULus	
UL registration number	E516036	
MTTF	120 years acc. to SN 29500 (Ed. 99) 40 °C	

## Accessories

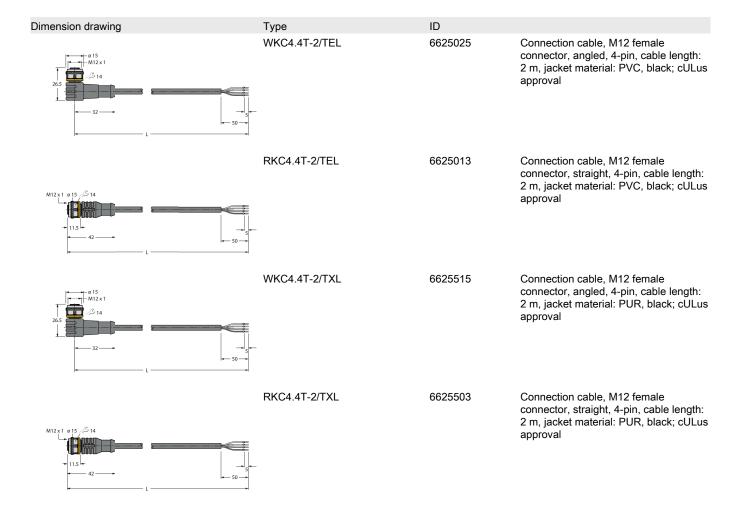
FAA-A1-1.4571	100001987	FAA-80-1.4571	100001988
	Screw-in adapter for immersion sensors from the series FS, FP; material: Stainless steel 1.4571 (316Ti); process connection: N1/2"		Screw-in adapter for immersion sensors from the series FS, FP; material: Stainless steel 1.4571 (316Ti); process connection: G1/2"
M18 x 1.5		M18 x 1.5	







### Accessories



## Accessories

