

Temperature sensors TWE, TVA

With connection cable // 0...800 °C



Highlights

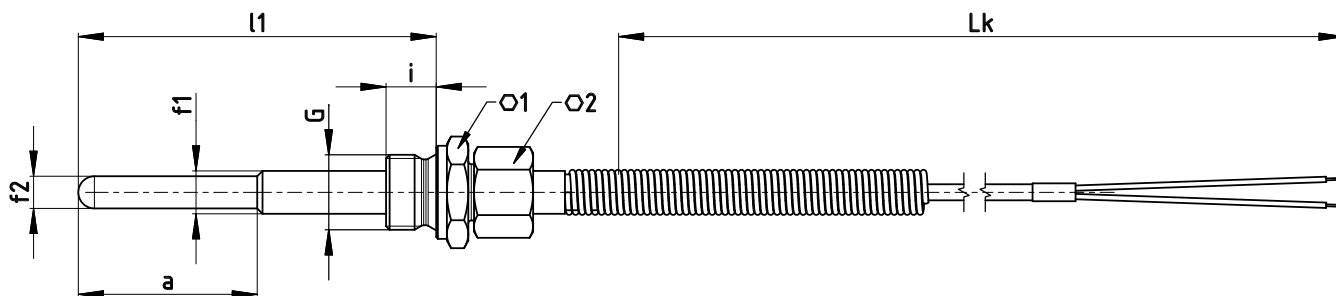
- For exhaust gas temperature measurement on diesel and gas engines, turbines and compressors
→ Up to 800 °C media temperature
- Available as resistance thermometer or thermocouple
- Very high vibration and shock resistance → Reliable and long-lasting operation
- Extremely resistant connecting cable → Enables use in harsh environments

Technical data	
Type	Temperature sensor with connection cable
Measuring range → TWECK → TVACP / TVACK	0...800 °C 0...600 °C
Measuring medium	Exhaust gases marine diesel engines
Immersion tube length	100...250 mm
Immersion tube diameter	8 or 12 mm
Process connection	Without, G¼, G½, M27 x 2
Nominal pressure	PN 25
Medium temperature → TWECK → TVACP / TVACK	0...800 °C 0...600 °C
Ambient temperature	-40...85 °C
Storage temperature	-25...70 °C
Degree of protection according to EN 60529	IP54
Approvals	
DNV (only TWE)	

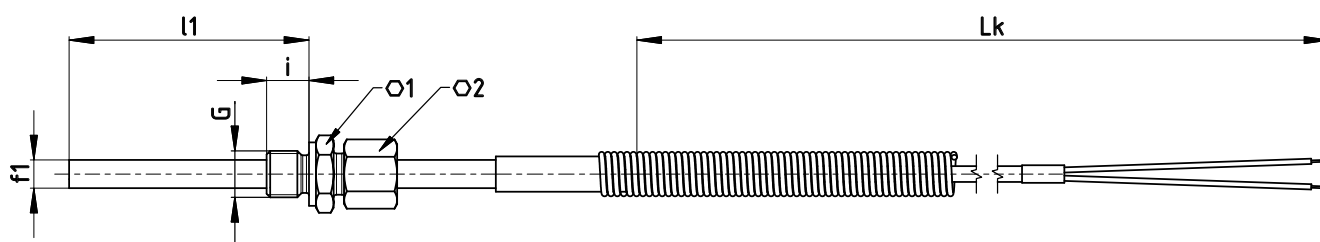
Electrical data	
Measuring element	1 x NiCr-Ni (Type K) 1 x Pt100 / 3-wire (only type TWE)
Measuring insert	Not interchangeable
Accuracy	Class 1 / ±1.5 °C or 0.004 x T Class B / ±(0.30 K + 0.005 x T)
Electrical connection	FEP cable, wire braided Fibreglass, wire braided

Technical drawings / Dimensions

TWE



TVA



Dimensions [mm]									
Type	l_1	L_k	f_1	f_2	G	i	a	O_1	O_2
TWE	100	2000±10	Ø 12	Ø 9	G½, G¼, M27 x 2 or without	14	50		
TVA	68	2000±10	Ø 8	—	G½, G¼, M27 x 2 or without	12	—	19	17

Materials

Materials	
In contact with media	
Process connection	Stainless steel 1.4571 or galvanized steel
Protection tube	Stainless steel 1.4571

Article numbers

Order code							
Diameter f1							
8 mm	TVA						
12 mm	TWE						
Material							
Stainless steel 1.4571		C					
Sensor element							
1 x NiCr-Ni (Type K)			K11				
1 x Pt100 3-wire / Class B (only Type TWE)			P31				
Nominal length L1							
100 mm				0100			
150 mm				0150			
200 mm				0200			
250 mm				0250			
Electrical connection							
FEP cable, wire braided					07		
Fibreglass, wire braided					08		
Process connection G							
without						0	
G¼ Galvanised steel						I	
G½ Galvanised steel						K	
G½ Stainless steel						J	
M27 x 2 Galvanised steel						H	
Cable length Lk							
1.0 m							01
1.5 m							02
2.0 m							03
2.5 m							04
3.0 m							05
Example order number	TVA	C	K11	0100	07	0	01