Temperature sensor WKO

With integrated transmitter and plug connector // -50...150°C



WKO

Highlights

- Designed for use in harsh environments on construction and extraction machines
- The transmitter integrated in the housing provides a fail-safe and standardized output signal
- Safe electrical connection due to robust DEUTSCH connector system
- Very high vibration and shock resistance → Reliable and long-lasting operation
- High protection class against moisture, dust and dirt ingress
- Extremely resistant connecting cable → Enables use in harsh environments

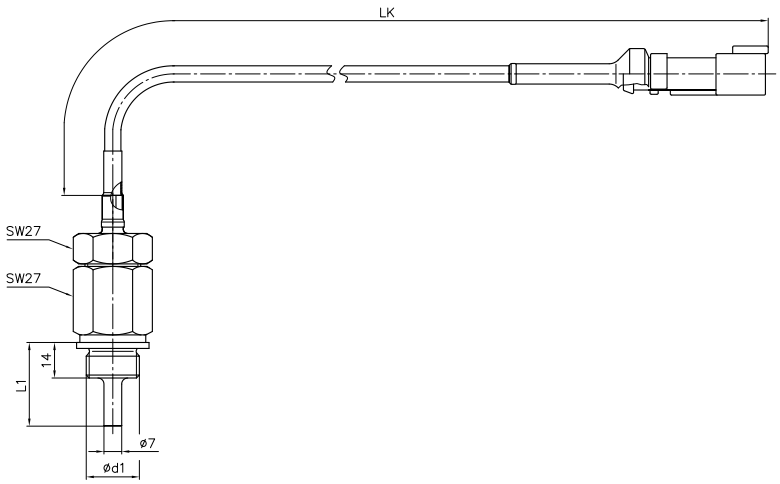
Technical data	
Type	Temperature sensor with integrated transmitter and plug connector
Measuring range	-50…150 °C
Measuring medium	Water and aqueous liquids, non-aggressive gases
Immersion tube length	30...100 mm
Immersion tube diameter	7 mm
Process connection	G½
Nominal pressure	PN 25
Medium temperature	-50...150 °C
Ambient temperature	-40...85 °C
Storage temperature	-25...70 °C
Degree of protection according to EN 60529	IP65

Electrical data	
Measuring element	1 x Pt100 / 2-wire
Measuring insert	Not interchangeable
Accuracy	Class B / ±(0.30 K + 0.005 x T)
Electrical connection	FEP cable with mounted DEUTSCH plug or KENPUR 500, orange, with mounted DEUTSCH plug
Supply voltage → 4...20 mA → 0...10 V	 10...35 VDC 15...30 VDC
Analogue output	
Current signal	4...20 mA or 0...10 V
Scaling	Programmable

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Technical drawing

WKO



All dimensions in mm

Materials

Materials	
In contact with media	
Process connection	Brass 2.0401 or Stainless steel 1.4571
Protection tube	Brass 2.0401 or Stainless steel 1.4571

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Article numbers

Order code									
Type									
Resistance thermometer	W								
Diameter									
7 mm		07							
Material									
Brass 2.0401			1						
Stainless steel 1.4571			3						
Sensor element									
1 x Pt100 2-wire / Class B				P21					
Nominal length L1									
30 mm					030				
100 mm					100				
Electrical connection									
FEP cable						27			
KENPUR 500, orange						09			
Process connection d1									
G½							2		
Cable length LK									
1.0 m								01	
1.5 m								02	
2.0 m								03	
2.5 m								04	
Signal output									
4...20 mA, 2-wire									I
0...10 V, 3-wire									U
Example order number	**W**	**07**	**1**	**P21**	**030**	**27**	**2**	**01**	**I**

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