Temperature sensor WBA

With connection cable // -50...400 °C



WBA

Highlights

- The sensor is intended for measuring surface temperatures by installation or bonding
- Optionally with bore hole for screw mounting → Quick and safe installation
- Water- and vapour-tight connection of sleeve and connection cable → Enables use in harsh environments
- Connection cable available with different insulation materials and shielding depending on application
- High dielectric strength → Very well suited for high-voltage applications
- Also available with digital 1-wire bus interface → Low cabling effort

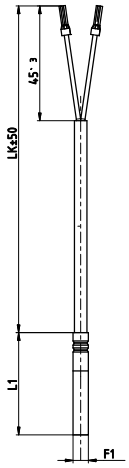
Technical data	
Type	Temperature sensor with connection cable for surface temperature measurement
Measuring range	-50…400 °C
Measuring medium	Water and aqueous liquids, non-aggressive gases, solids
Immersion tube length	40 or 50 mm
Immersion tube diameter	SW6 or SW8
Process connection	Square to put on or glue together Square with 5 mm bore hole
Medium temperature	-50...400 °C
Ambient temperature	-40...80 °C
Storage temperature	-25...70 °C

Electrical data	
Measuring element	1 x Pt1000 / 2-wire 2 x Pt1000 / 2-wire 1 x DS18B20U+(digital) with integrated protection circuit 1 x NTC 5k
Measuring insert	Not interchangeable
Accuracy	Class A / ±(0.15 K + 0.002 x T) Class B / ±(0.30 K + 0.005 x T) Temperature sensor NTC 5k ±0.5 °C (Beta 1 %) Digital 1-wire bus temperature sensor ±0.5 °C (-10…85 °C)
Electrical connection	PVC connection Silicone cable FEP cable, optionally shielded Databus cable 120 Ohm, shielded Radox cable, shielded

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Technical drawing

WBA



All dimensions in mm

Materials

Materials	
In contact with media	
Process connection	Brass 2.0401 / 2.0402 or stainless steel 1.4571
Protection tube	Brass 2.0401 / 2.0402 or stainless steel 1.4571

Article numbers

Order code								
Type								
Resistance thermometer	W							
Square F1								
6 mm		06						
8 mm		08						
Material								
Brass 2.0401 / 2.0402			1					
Stainless steel 1.4571			3					
Sensor element								
1 x Pt1000 2-wire / Class B				P12				
2 x Pt1000 2-wire / Class B				P24				
1 x DS18B20U+(digital) with integrated protection circuit				E01				
1 x NTC 5k				N01				
Nominal length L1								
40 mm					040			
50 mm					050			
Electrical connection								
PVC connection						01		
Silicone cable						03		
FEP cable						05		
FEP cable, shielded						07		
Databus cable 120 Ohm, shielded						X1		
Radox cable, shielded						X2		
Process connection								
Square to put on or glue together							0	
Square with bore 5 mm							1	
Cable length LK								
1.0 m								01
1.5 m								02
2.0 m								03
2.5 m								04
Example order number	**W**	**06**	**1**	**P12**	**040**	**01**	**0**	**01**

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