With M12 plug // -40...120 °C





Highlights

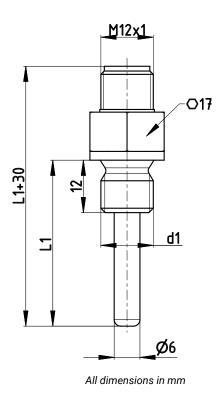
- · Air temperature measurement in ventilation and air conditioning systems
- Low heat dissipation by process connection made of glass fibre reinforced plastic
 - → significantly lower measurement error
- Clearly identifiable through different coloured plastics → no danger of mistakes during installation
- Safe and compact electrical connection via M12 connector
- · High protection class against moisture, dust and dirt ingress
- Short response time → Ideal for controlling rapidly changing process parameters
- Very high vibration resistance → Reliable and long-life operation
- Also available with digital 1-wire bus interface \rightarrow Low cabling effort
- Type-tested according to DIN EN 50155

Technical data	
Туре	Temperature sensor with M12 plug
Measuring range	-40120 °C
Measuring medium	Ambient air (non-aggressive gases)
Immersion tube length	38 or 100 mm
Immersion tube diameter	6 mm
Process connection	M12 x 1.5
Nominal pressure	n.a. (atmospheric pressure)
Medium temperature	-40120 °C
Ambient temperature	-4080 °C
Storage temperature	-2570 °C
Degree of protection according to EN 60529	IP65

Sensor element 1 x Pt100 / 3-wire 1 x Pt1000 / 2-wire 1 x 1-wire bus sensor with integrated protection circuit or 1 x NTC 5k Measuring insert Not interchangeable Accuracy Class A / ±(0.15 K + 0.002 x T)	Electrical data	
Accuracy Class A / ±(0.15 K + 0.002 x T)	Sensor element	1 x Pt1000 / 2-wire 1 x 1-wire bus sensor with integrated protection circuit or
- · · · · · · · · · · · · · · · · · · ·	Measuring insert	Not interchangeable
Class B / ±(0.30 K + 0.005 x T) 1-wire bus temperature sensor ±0.5 °C (-1085 °C) Temperature sensor NTC 5k ±0.5 °C (Beta 1 %)	Accuracy	Class B / ±(0.30 K + 0.005 x T) 1-wire bus temperature sensor ±0.5 °C (-1085 °C) Temperature sensor NTC 5k
Electrical connection Flange plug M12 x 1, 4-pole, nickel-plated brass	Electrical connection	

Technical drawing

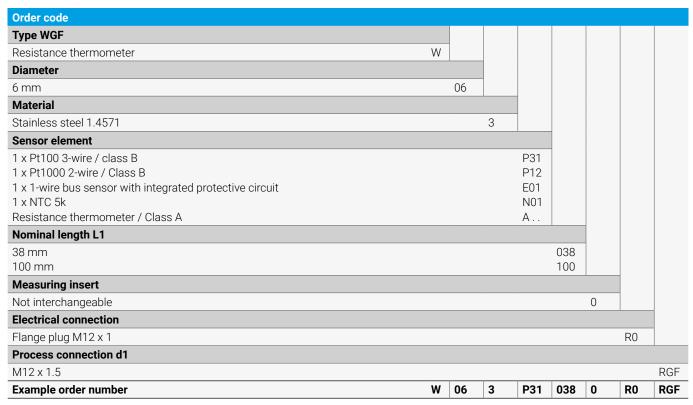
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Materials

Materials	
In contact with media	
Process connection	Plastic nipple made of glass fibre reinforced plastic (Ultramid A3X2G5)
Immersion tube	Stainless steel 1.4571

Article numbers



Note: The plastic nipple is customer-specific, there are proportionate tool costs.

