Bearing temperature sensor **type MBT 5310**

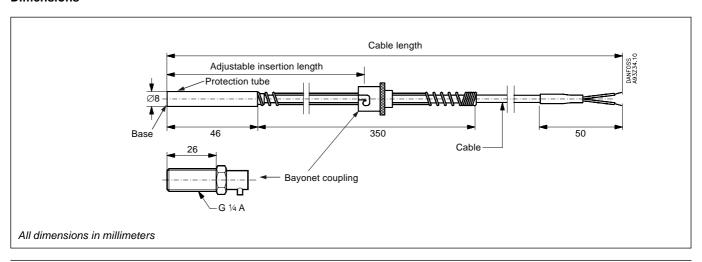
Features and application



- For monitoring and registering bearing temperature in ships' engines and other machines where there is a risk of overheated bearings
- Insertion length adjustable from 60 to 300 mm
- Up to +200°C media temperatures
- Pt 100 resistance element
- Extremely short reaction time
- Approvals
 - Lloyds Register of Shipping, LR
 - Germanischer Lloyd, GL Bureau Veritas, BV

 - Det Norske Veritas, DNV
 - Nippon Kaiji Kyokai, ClassNK

Dimensions



Technical data

Response times

	Indicative response times. Typical measured values.		
Protection tube	Change from 200°C to 20°C by insertion in water		
	t _{0.5}	t _{0.9}	
Ø8 × 1	0.5	1.5	

Materials

Protection tube	W.no. 1.4571 (AISI 316 Ti)
Base	Silver
Bayonet coupling	Nickel plated brass
Cable	Armoured teflon 2 × 0.6 mm ²

August 2000

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Weight

	MBT 5310 with 3000 mm cable
Weight, approx.	130 g

Mechanical and environmental specifications

Ambient temperature	Max.: +100°C Max. (cable): +200°C		
Sensor element	Pt 100 according to EN 60751 Class B		
Sensor tolerance	EN 60751 Class B: ±(0.3 + 0.005 × t)	t = temperature of medium, numerical value	
Vibration stability	Shock: 100 g in 6 ms Vibrations: 4g sine function 2 - 100 Hz,	measured acc. to IEC 68-2-6	

Ordering - Standard programme

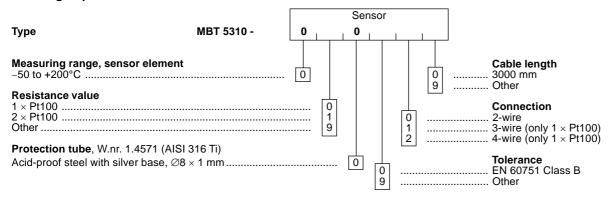
Measuring range: -50 to +200°C
 Resistance value: 1 x Pt100

• Protection tube: $\emptyset 8 \times 1$ mm with silver base

Tolerance: EN 60751 Class B

Connection	Cable length [mm]	MBT 5310-	Code no.
2-wire	3.000	000000	084Z0094
4-wire	3.000	000020	084Z0387
2-wire	6.000	000009	084Z0688

Ordering - Special versions



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DK-6430 Nordborg Denmark

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