

Data sheet

Stern tube sensor

Type MBT 5722



Designed specially for monitoring bearing temperature in stern tubes:

Flexible protection tube that makes it possible to reach bearings placed up to 20 m from the terminal box.

Precision Pt 100 element secures fast and precise caption of the bearing temperature which makes it possible to prevent bearing damage.

Features

- Flexible sheath (bending radius down to R=30 mm)
- Moveable compression fitting
- Robust construction with resistance to shock and vibrations to IEC 60068-2-6
- Up to 200 °C media temperature with Pt 100 resistance element
- Short reaction time

Approvals

Lloyds Register of Shipping, LR
 Germanischer Lloyd, GL
 Det Norske Veritas, DNV
 Registro Italiano Navale, RINA

Nippon Kaiji Kyokai, NKK
 American Bureau of Shipping, ABS
 Korean Register of Shipping, KRS
 Bureau Veritas, BV
 China Classification Society, CCS

Technical data

General data

Measuring range	-50 – 200 °C
Sensing element	Pt 100, 3 wire connection
Protection tube	ø4,5 mm

Response times

Indicative response time		
	$t_{0.5}$	$t_{0.9}$
Water 0.2 m/s	4 s	12 s

Mechanical and environmental specifications

Max. ambient temperature	70 °C (brief in max. 2 hours: 80 °C)	
Vibration stability	Shock:	100 g / 6 ms
	Vibrations:	4 g sine function 2 – 100 Hz, measured acc. to IEC 60068-2-6
Enclosure	IP67 according to IEC 60529	
Cable entry	Pg 11	
Material, wetted parts	AISI 316 Ti	

Net weight with a length of 2000 mm

Net weight, approx.	600 g
Length / net weight ratio	40 g per 1000 mm

Sensor tolerance

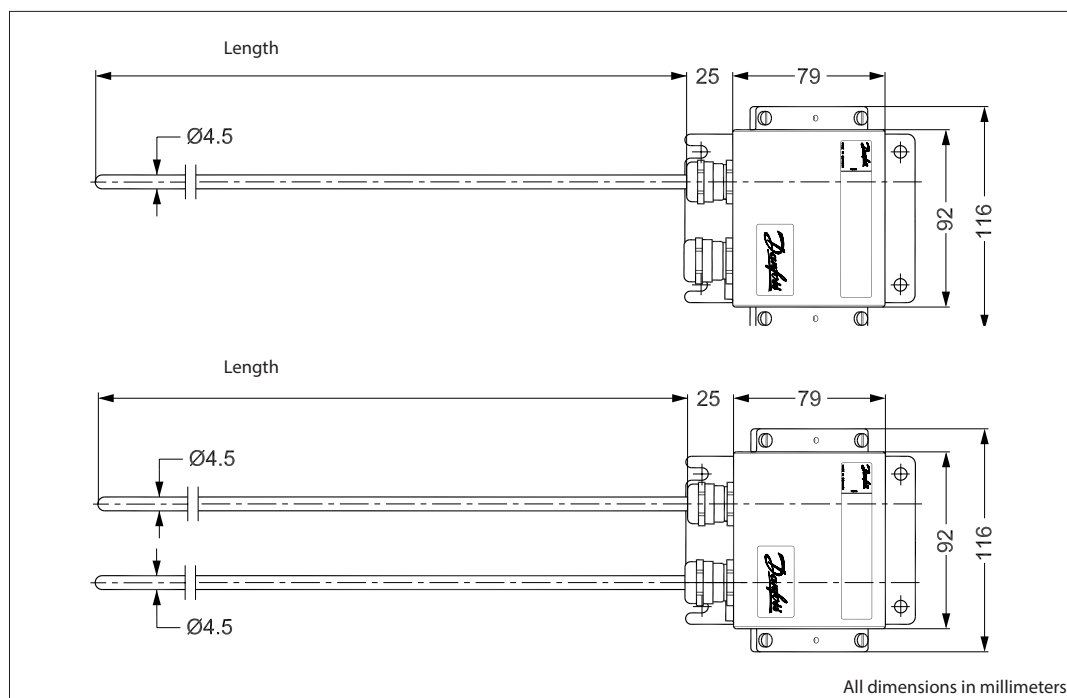
EN 60751 Class B	$\pm (0.3 + 0.005 \times t)$ t = media temperature, numerical value	
Measurement deviation		

Ordering standard

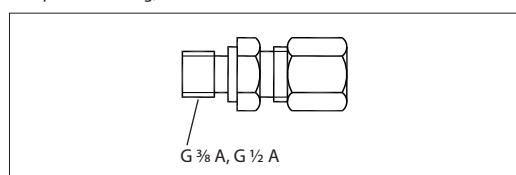
Type MBT 5722		Sensor			
Measuring range	-50 – 200 °C	0	2	Accessories	
Other	9	9	9	Box	
Resistance value	1 × Pt 100	0	0	Other	
Other	9	9	1	Adjustable fitting	
Sheath diameter, W.nr. 1.4571 (AISI 316 Ti)	∅4.5 mm	1	2	None	
2 × ∅4.5 mm	3	9	9	G 3/8 A	
Other	9	1	1	G 1/2 A	
Insertion length	1.0 m	010	0	Connection	
2.0 m	020	9	9	3-wire	
4.0 m	040			Tolerance	
6.0 m	060			EN 60751 Class B	
8.0 m	080			Other	
x.x m	xxx				

Preferred versions

Dimensions



Compression fitting, accessories



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