

**Data sheet** 

# Temperature sensor and temperature transmitter Type MBT 5410



Features

- For measuring temperature in marine and industrial refrigeration, freezing installations
- Temperature range: From -50 70 °C
- High measuring accuracy

- Robust construction with resistance to shock and vibration
- Available with built-in transmitte

### 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**

# Mechanical and environmental specifications

Ambient temperature	Approval from Lloyds Register of Shipping covers measuring range -30 – 70 °C. Because of this limitation the products are marked -30 – 70 °C.		
	Max. ambient temperatures for sensors with temperature transmitter are:		
	Standard:	-40 – 70 °C (Brief in max. 2 hours: 80 °C)	
	Without transmitter:	-50 – 70 °C (Brief in max. 2 hours: 80 °C)	
Sensor tolerance	EN 60751 class B: ± (0.3 + 0.005 × t)	t = temperature of medium, numerical value	
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 13.5		
Material (sensor tube)	W.no. 1.4571 (AISI 316 Ti)		

Further information about temperature transmitter type MBT 9110 available in separate data sheet

# Response time

Protection tube	Indicative response times	
	Air 1 m/s	
	t <sub>0.5</sub>	t <sub>0.9</sub>
ø10 × 2	35 s	100 s

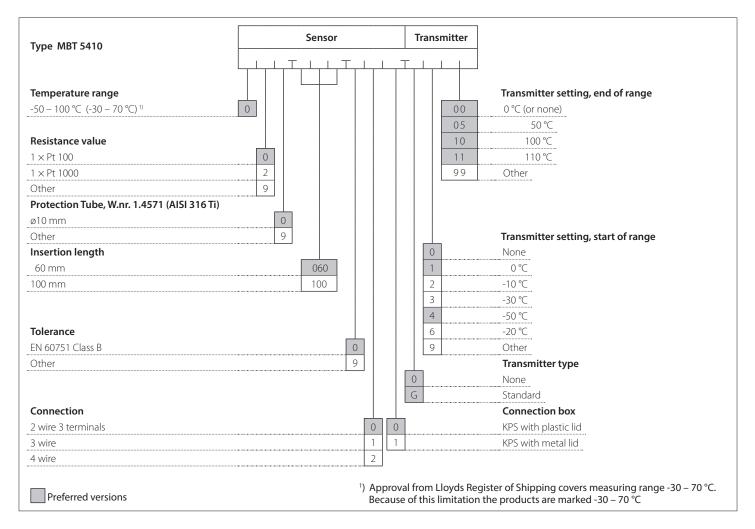
# Net weight

	Without temperature transmitter	With temperature transmitter
Net weight, approx.	550 g	600 g

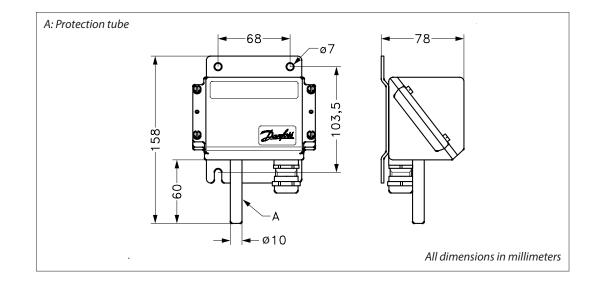
Danfoss



### **Ordering standard**



#### Dimensions



Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.