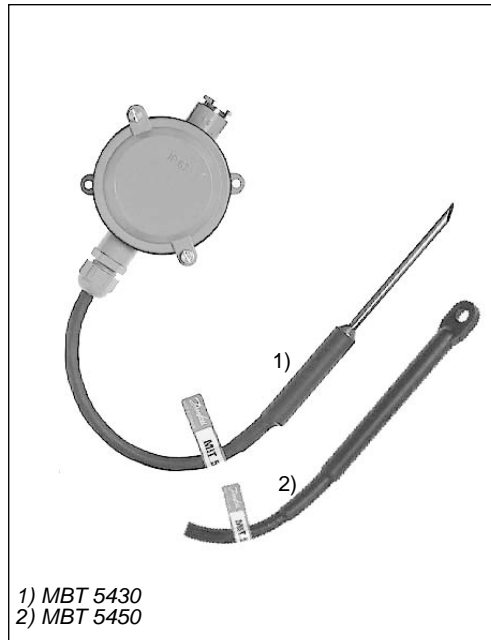


Cargo temperature sensor types MBT 5430 & 5450

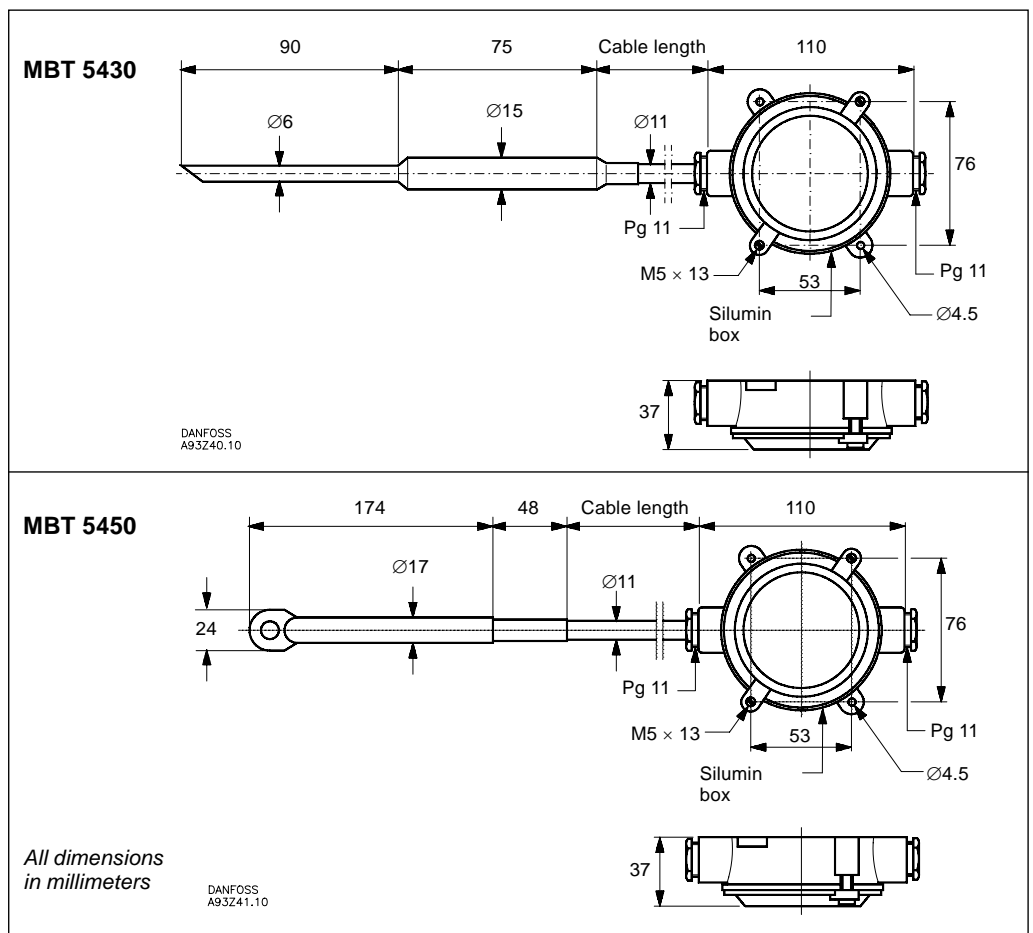
Features and application



- MBT 5430 with needle shaped sensor for monitoring temperatures in foodstuffs such as meat or fruit during shipment in refrigeration ships etc.
- MBT 5450 with vulcanised sensor for measuring and regulating bulk goods and liquid temperatures in cold and wet
 - cargo holds in refrigeration ships and fishing boats
 - cold stores
 - reservoirs and tanks
- MBT 5450 is designed for immersion in liquids and for direct contact with chilled and frozen foods
- Pt 100 resistance element
- Up to +70°C media temperatures
- Approvals
 - Lloyds Register of Shipping, LR
 - Germanischer Lloyd, GL
 - Bureau Veritas, BV
 - Det Norske Veritas, DNV
 - Nippon Kaiji Kyokai, ClassNK

MBT 5430 & 5450

Dimensions



Technical data

Response times

Indicative response times according to VDI/VDE 3522			
MBT 5430		MBT 5450	
Water 0.2 m/s		Water 0.2 m/s	
$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$
7 sec.	21 sec.	45 sec.	135 sec.

Weight

	MBT 5430	MBT 5450
Weight, approx.	2.2 kg	3.6 kg

Materials

MBT 5430 sensor probe	W.no. 1.4571 (AISI 316 Ti)
MBT 5450 sensor probe	Rubber vulcanized brass
Connection box	Silumin (grey)

Mechanical and environmental specifications

Media / ambient temperature	Max.: +70°C Min.: -30°C	
Sensor element	Pt 100 according to EN 60751 Class B	
Sensor tolerance	EN 60751 Class B: $\pm(0.3 + 0.005 \times t)$	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	
Enclosure	IP 67 according to IEC 529	
Cable entry	PG 11	
Cable length	12 m	
Electrical connection	4-wire	

Ordering -
Standard programme

Type	Specification code	Code no.
MBT 5430	MBT 5430-000021	084Z0918
MBT 5450	MBT 5450-000021	084Z0919

Other specifications on request

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