

Application

- For measurement and surveillance of bearing temperature on ship engines and machine constructions, in order to avoid damages and breaks down of costly equipment.
- Can be used on surfaces up to 180°C.
- Fields of application
 - Marine industry
 - Machinery

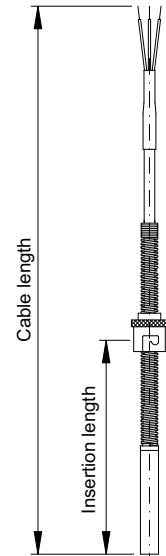
Technical features

- Pt100 resistance thermometer (RTD) acc to IEC 751.
- 3 - wire connection is standard.
- Very fast response time. Achieved by using a silver bottom and special selected resistance element (RTD).
- Solid construction with high resistance against vibration acc. to IEC 68-2-6.
- Type approved by classification societies (see page 2).
- Quick mounting and adjustment of insertion length by means of a bayonet socket on a spring.

Ordering

The required sensor is selected from the table below.

- Standard: Standard modules (Short delivery time).
- Variant: Modified standard modules.
- Special: Special versions and material. We are specialist in temperature measurement. Please contact us and we will do our best to solve your specific measuring task



Ordering information

Specification number	1812-													
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Protective tube

Acid proof and stainless steel, W.no. 1.4571 (AISI 316Ti)
with silver bottom
8mm OD. 0.4mm wall. L = 46mm

0
s

Cable length (meter)

0 2 2 meter
0 4 4 meter
x x Special (in meters: Min. 1m)

Cable type

0 0.382mm² Teflon insulated with inner screen, max 200°C
s Special:

Process connection (see page 2)

None: 0
1/4" BSP Bayonet nipple: 1
Special: s

Connection. Wiring configuration

0 3-wire (only 1xPt100)
1 4-wire (only 1xPt100)
2 2-wire (always with 2xPt100)

Measuring range

-40 +180°C 0
Special: s

Tolerance acc. to IEC 751

0 Class B, i.e. ± (0.3°C + 0.005 x t_{actual}) °C
s Special:

Resistance value (ohm) acc. IEC 751

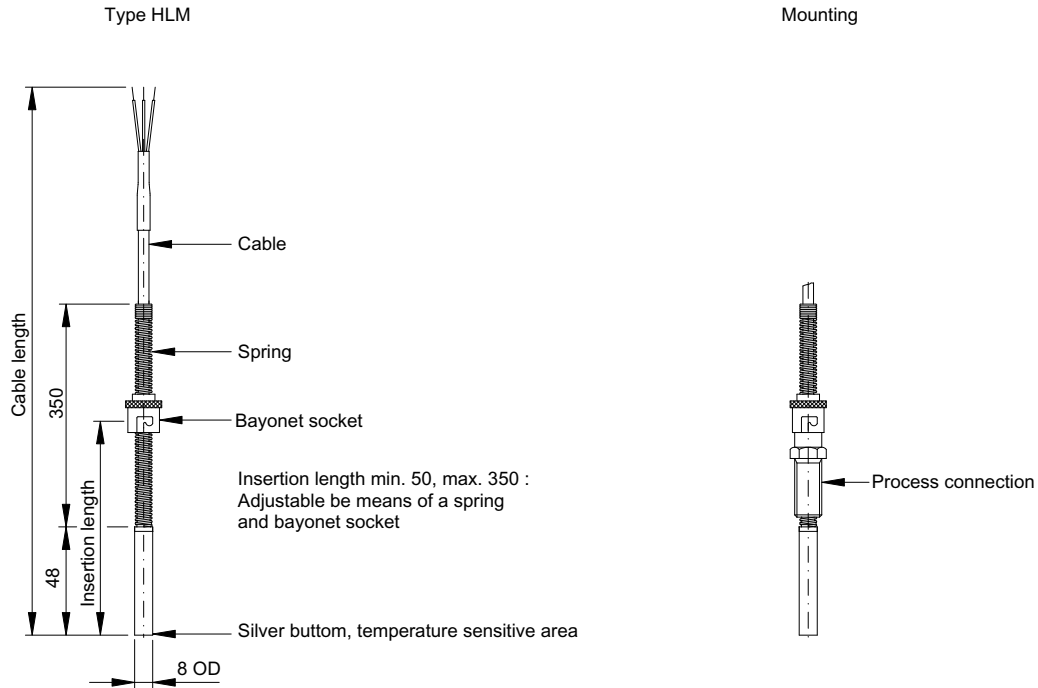
1xPt100 0
2xPt100 1

Accessories

Customer information

Name:
Tel.:

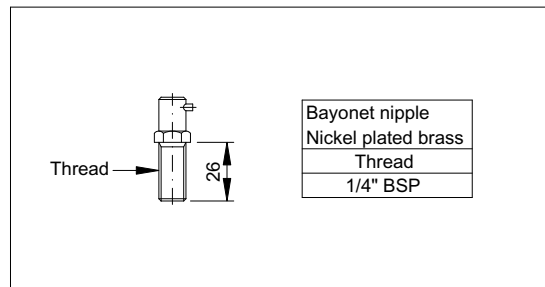
Dimensions



Features for cable

Insulation	Temperature range	Application
Teflon FEP	-50 +200°C	Corrosive and heat resistance

Process connection



Response time

Protective tube	Response time acc. to representative measurement	
	Temp. changed from 200°C to 20°C (immersed in water)	
	$t_{0.5}$	$t_{0.9}$
8 OD	0.5 sec	1.5 sec

Type Approvals

- Lloyd's Register of Shipping
- Det Norske Veritas

Cable connection

Teflon w/screen	
Screen connected to protective tube	
1xPt100 2- 3- 4-wire	2xPt100 2-wire
Red Red/green White/green White	Red Red/green White/green White