

**EPIC® SENSORS T-106 / W-106**  
**Temperature sensor for food industry**

**Features**

- temperature range -200...+300 °C
- sharp tip
- handle
- Pt 100 resistance thermometer as sensing element
- Pt 100 accuracy class A as standard delivery
- AISI 316L as standard delivery material, other materials on request
- tailored solutions according to customer specific needs.

**Typical applications**

- food industry
- chemical industry.

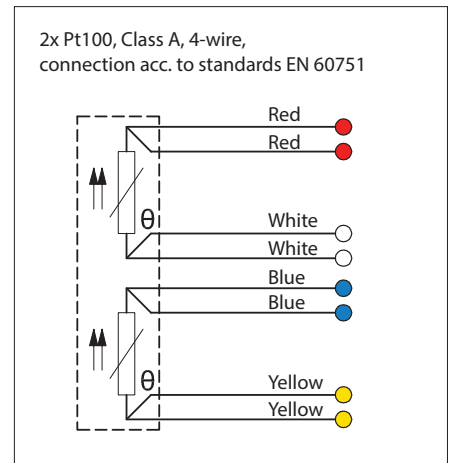
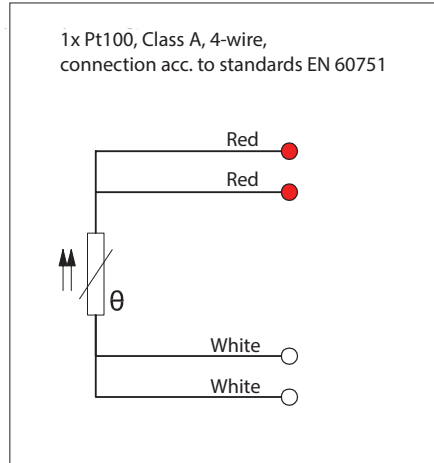
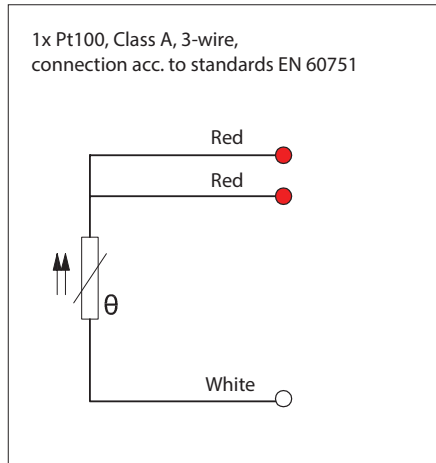


**Technical data**

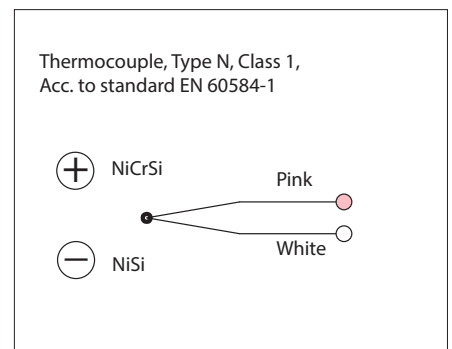
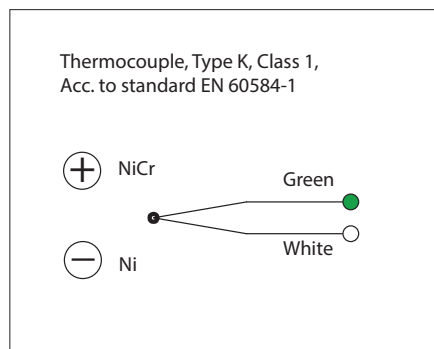
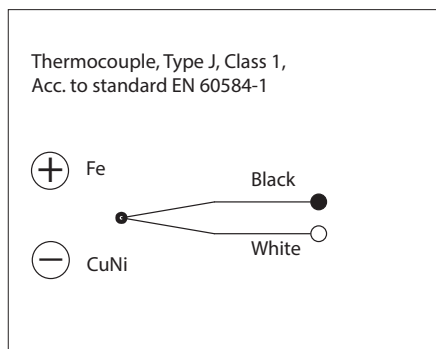
<b>Materials</b>	AISI 316L, maximum temperature +250 °C, temporarily +300 °C, other materials on request (Note: plastic covered handle max. temperature + 110 °C)
<b>Tip diameter</b>	3, 4 or 6 mm, other diameters and tip shapes on request
<b>Handle material</b>	Plastics as standard delivery material, maximum temperature + 110 °C Available also in acid proof stainless steel
<b>Cable material</b>	SIL = silicone, max. +180 °C FEP = Teflon®, max. +205 °C GGD = glass silk cable/metal braid jacket, max. +350 °C FDF = FEP wire insulation/braid shield/FEP jacket, max. +205 °C SDS = silicone wire insulation/braid shield/silicone jacket, only available as 2 wire cable, max. +180 °C TDT = Teflon® wire insulation/braid shield/ Teflon® jacket, max. +205 °C FDS = FEP wire insulation/braid shield/silicone jacket, max. +180 °C FS = FEP wire insulation/silicone jacket, max. +180 °C
<b>Tolerances Pt100 (IEC 60751)</b>	A tolerance $\pm 0.15 + 0.002 \times t$ , operating temperature -100...+450 °C B tolerance $\pm 0.3 + 0.005 \times t$ , operating temperature -196...+600 °C B 1/3 DIN, tolerance $\pm 1/3 \times (0.3 + 0.005 \times t)$ , operating temperature -196...+600 °C B 1/10 DIN, tolerance $\pm 1/10 \times (0.3 + 0.005 \times t)$ , operating temperature -196...+600 °C
<b>Tolerances thermocouple (IEC 60584)</b>	Type J tolerance class 1 = -40...375 °C $\pm 1.5$ °C, 375...750 °C $\pm 0.004 \times t$ Type K and N tolerance class 1 = -40...375 °C $\pm 1.5$ °C, 375...1000 °C $\pm 0.004 \times t$
<b>Temperature range Pt100</b>	-200...+300 °C, depending on material
<b>Temperature range thermocouple</b>	-200...+300 °C, depending on thermocouple type and material
<b>Approvals</b>	METROLOGICAL PATTERN APPROVAL
<b>Quality certificate</b>	ISO 9001:2015 issued by DNV-GL

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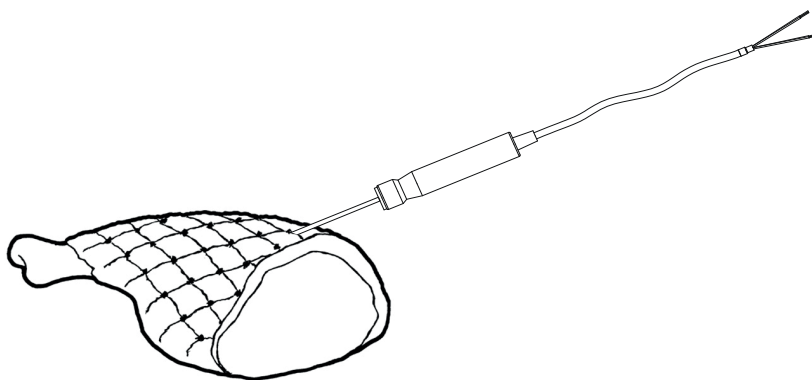
**Pt100 connections**



**Thermoelement connections**

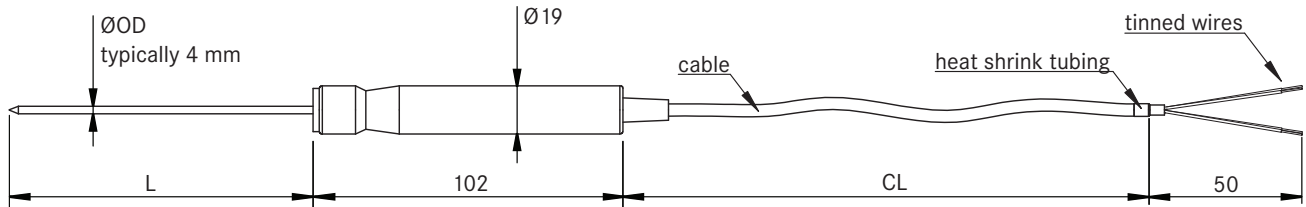


**Installation examples**



**EPIC® SENSORS T-106 / W-106**  
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**Drawing**



**Product code key**

Example code: W - 106 - 4 / 100 - 5000 / SIL - 4 - A - X

W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
T	= thermocouple
2xT	= 2 x thermocouple
106	= sensor for food industry (constant in code)
3, 4, 6	= outer diameter of sensor element (ØOD) [mm]
100	= sensor element length, L [mm]
5000	= cable length, CL [mm]
SIL, FEP, GGD, FDF, TDT, SDS, FDS, FS	= cable material (for more information, look technical data on first page of the datasheet)
4,3,2	= Pt100 wire count
K,N,J	= thermocouple type
A,B	= Pt100 accuracy class, (class A as standard delivery)
1,2,3	= thermocouple accuracy class, (class 1 as standard delivery)
X	= additional details on the text line

