

**EPIC® SENSORS W-SIL-PATCH / T-SIL-PATCH or 2xW-SIL-PATCH / 2xT-SILPATCH**

**Silicone patch sensor**

**Features**

- temperature range -40...+180 °C
- Pt100 or thermocouple as sensing element
- Pt100 accuracy class A as a standard delivery
- thermocouple accuracy class 1 as a standard delivery
- EMI shielded version available
- ELASTOSIL® RT 607 A/B silicone material
- aluminum tape on measuring surface as option
- tinned fine stranded copper wires
- supplied with cable or twisted wires
- tailored solutions according to customer specific needs.

**Typical Applications**

- energy and power plant technology
- process industry
- chemical industry
- machinery and vessel construction
- manufacturing industry.

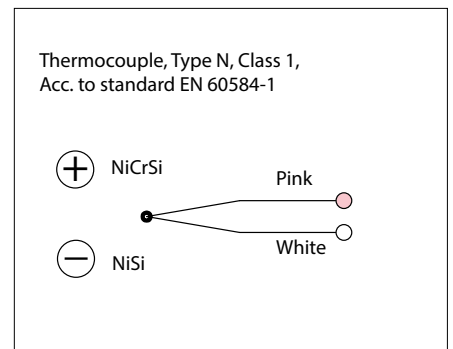
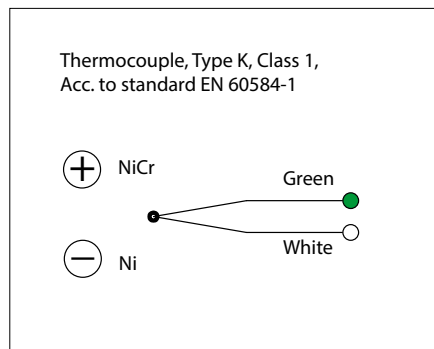
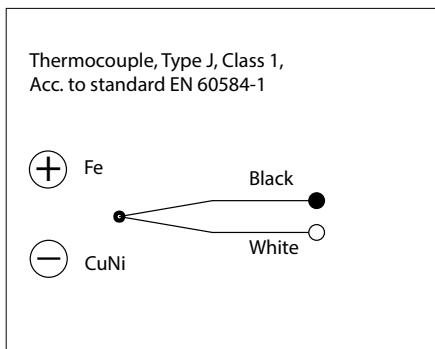
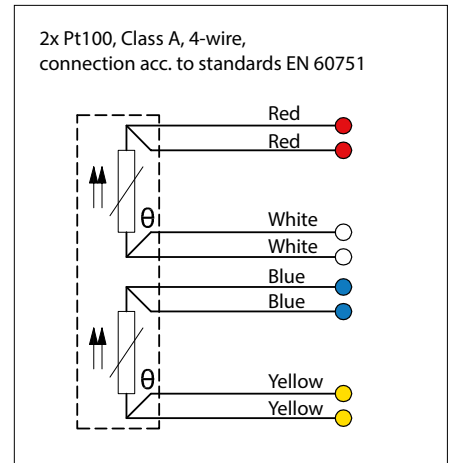
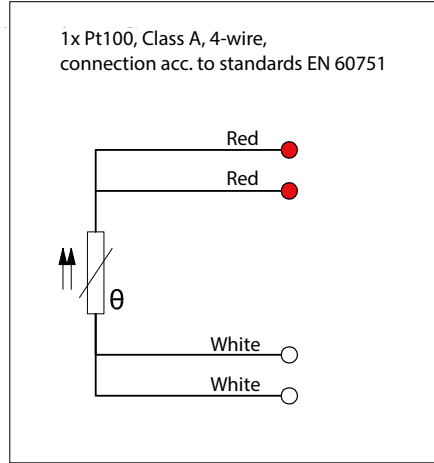
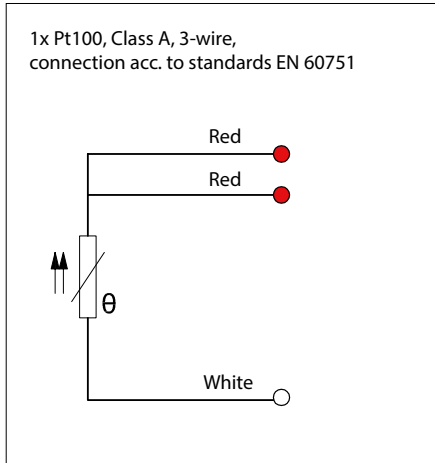


**Technical data**

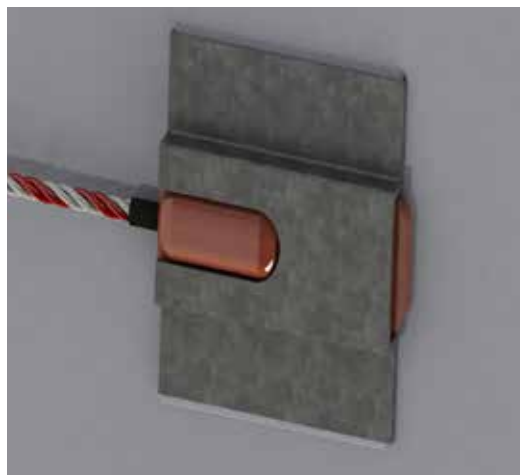
<b>Tolerances Pt100 (IEC 60751)</b>	A, tolerance $\pm 0.15 + 0.002 \times t$ , operating temperature -100...+450 °C B, tolerance $\pm 0.3 + 0.005 \times t$ , operating temperature -196...+600 °C B 1/3 DIN, tolerance $\pm 1/3 \times (0.3 + 0.005 \times t)$ , operating temperature -196...+600 °C B 1/10 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 class1 = -40... 375 °C $\pm 1,5$ °C, 375...750 °C $\pm 0,004 \times t$ Types K and N tolerance class 1 = -40...375 °C $\pm 1,5$ °C, 375...1000°C $\pm 0,004 \times t$
<b>Cable materials</b>	SIL = silicone, maximum temperature +180 °C FEP = Teflon®, maximum temperature +205 °C GGD = glass silk cable/metal braid jacket, maximum temperature +350 °C FDF = FEP wire insulation/braid shield/FEP jacket, maximum temperature +205 °C SDS = silicone wire insulation/braid shield/silicone jacket, only available as 2 wire cable, maximum temperature +180 °C TDT = Teflon® wire insulation/braid shield/ Teflon® jacket, maximum temperature +205 °C FDS = FEP wire insulation/braid shield/silicone jacket, maximum temperature +180 °C FS = FEP wire insulation/silicone jacket, maximum temperature +180 °C CON = no cable, individual single wires, FEP wire insulation, maximum temperature +205 °C
<b>Wire materials</b>	2 wires = FEP insulated twisted wires 2x0,22/+205°C 3 wires = FEP insulated twisted wires 3x0,22/+205°C 4 wires = FEP insulated twisted wires 4x0,22/+205°C
<b>Temperature range</b>	-40...+180 °C (Note: range is for silicone sensor head, cable range according to selection)
<b>Approvals</b>	METROLOGICAL PATTERN APPROVAL
<b>Quality certificate</b>	ISO 9001:2015 issued by DNV
<b>IP rating</b>	IP65, higher IP rating on request

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**Pt-100 connections**



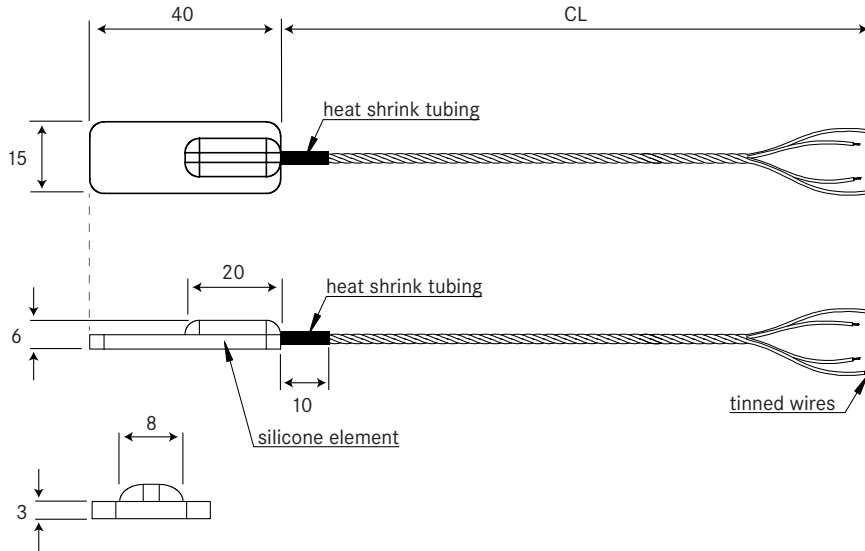
**Installation examples**



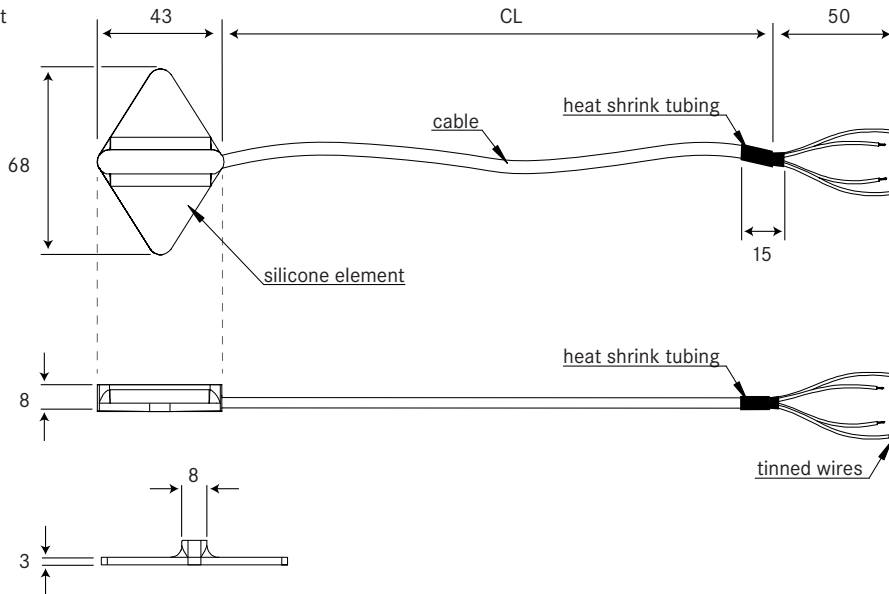
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**Drawing**

Small silicone element  
 40x15x3 mm



Large silicone element  
 68x43x8 mm



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**Product code key**

Example code: W – SIL – PATCH – 40X15X3 – 5000 / SIL – 4 – A – Y – X

W	= Pt100 resistance thermometer
2xW	= 2 x Pt100 resistance thermometer
T	= thermocouple
2xT	= 2 x thermocouple
SIL-PATCH	= silicone patch sensor (constant in code)
40X15X3	
68X43X8	= silicone element size [mm]
5000	= cable or wiring length, CL [mm]
CON, 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)
Y	= with aluminum foil on installation surface
N	= no aluminum foil
X	= additional details on the text line
	_____
	_____

