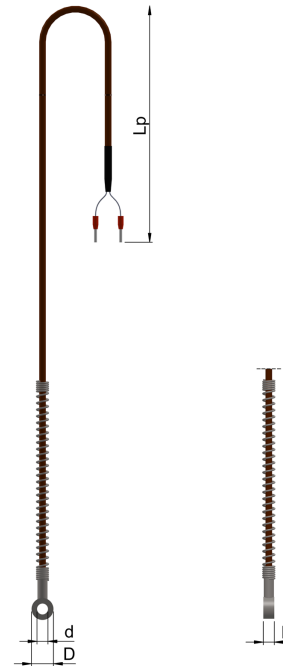


## Temperature sensors for surface measurement TTJE-306, TTKE-306

### Technical description

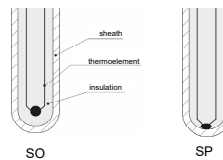
Measuring range / sensing element		
(-40 ÷ 400) °C	<b>J, K</b>	class 2
Thermowell		
– material: steel 1.4541		
– ring dimension: D [mm]: 10÷25, L <sub>min</sub> [mm]: 4, d <sub>min</sub> [mm]: 4		
Wire		
– thermocouple wire: 2x0,22 mm <sup>2</sup> in fiberglass insulation		
– additional metal braided for L <sub>p</sub> ≥5 mm		
– measuring junction: isolated SO		
– length L <sub>p</sub> =1,5m (standard)		
Options		
– other cable insulations acc. to requirements: silicone insulation, operating temperature up to 180 °C for L <sub>p</sub> ≥6 mm, teflon insulation, operating temperature up to 200 °C for L <sub>p</sub> ≥5 mm		
– measuring junction: grounded SP		



Tolerance for thermocouples class acc to. PN-EN 60584

Thermocouple	Class 1		Class 2	
	Range [°C]	Tolerance [°C]	Range [°C]	Tolerance [°C]
<b>J</b> Fe-CuNi	(-40÷375) (375÷750)	±1,5 ±0,004  t	(-40÷333) (333÷750)	±2,5 ±0,0075  t
<b>K</b> NiCr-NiAl	(-40÷375) (375÷1000)	±1,5 ±0,004  t	from (-40÷333) (333÷1200)	±2,5 ±0,0075  t

Types of measuring hot junction



### Ordering code

Temperature sensor	TT	...	E-306	-	...	...	...	...
Thermocouple Fe-CuNi			<b>J</b>					
Thermocouple NiCr-NiAl			<b>K</b>					
Ring dimension d/DxL [mm]						<b>5/10x5*</b>		
Junction insulated from the sheath								<b>SO</b>
Junction grounded								<b>SP</b>
Thermocouple class								<b>1, 2</b>
Cable length L <sub>p</sub> [m]								<b>1,5m*</b>

\* or others acc. to requirements

### Ordering example

**TTJE-306-5/10x5-SO-2-1,5m** sensor with thermocouple Fe-CuNi, class 2, ring dimension d=5 mm, D=10 mm, L=5 mm, isolated junction, length of lead wire in metal braided L<sub>p</sub>=1,5m

**TTKE-306-4,5/8x5-SP-2-2m** sensor with thermocouple NiCr-NiAl, class 2, ring dimension d=4,5 mm, D=8 mm, L=5 mm, grounded junction, length of lead wire in metal braided L<sub>p</sub>=2m