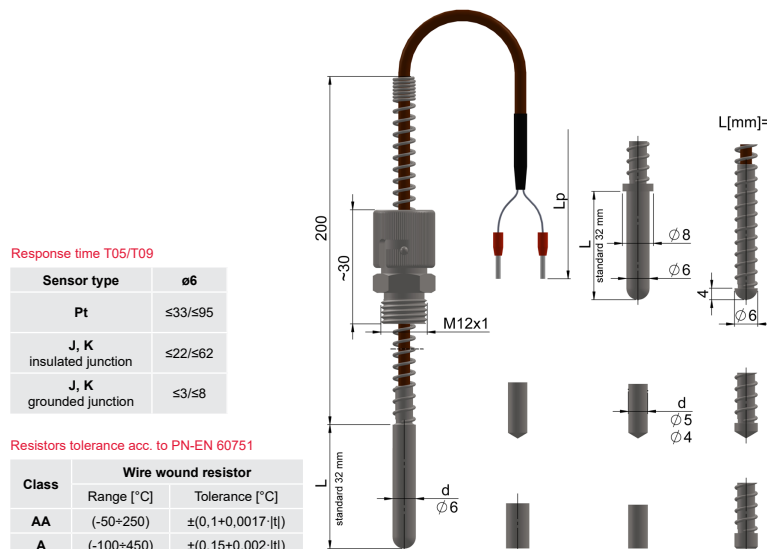


## Temperature sensors of machinery and device parts TOPE-26, TTJE-26, TTKE-26

### Dane techniczne

Measuring range / sensing element		
(-50 ÷ 400) °C	<b>Pt100</b>	class B
(-40 ÷ 400) °C	<b>J, K</b>	class 2
Sheath		
– material: steel 1.4541		
– diameter d [mm]: Ø4, Ø5, Ø6		
– length L [mm]: 0÷100		
– spring diameter: Ø6 mm		
– tip: spherical (K), flat (P) or conical (S)		
– bayonet handle with connector - nickel-plated brass		
– standard length of spherical sheath L [mm]: 32		
Lead wire		
– Cu wire or thermocouple wire: 2x0,22 mm <sup>2</sup>		
– fiberglass insulation with metal braid		
– measuring junction for TC: insulated SO		
– length L <sub>p</sub> = 1,5m (standard)		
– wires resistance Cu~0,14 Ω/m~0,36 °C		
Options		
– Pt500, Pt1000, Ni100, Ni1000, T		
– other lead wire insulation types: PVC, silicone, teflon, acc. to requirements		
– measuring junction for TC: grounded SP		
– 3-, 4-wire connection for RTD		
– Pt100: class A (-30 ÷ 300) °C, class AA (0 ÷ 150) °C; TC: class 1		
– other threads - inch: G¼; G¾		
metric: M10x1; M12x1,25; M12x1,5; M12; M14; M16x1,5		



Response time T05/T09

Sensor type	Ø6
Pt	≤33/≤95
J, K insulated junction	≤22/≤62
J, K grounded junction	≤3/≤8

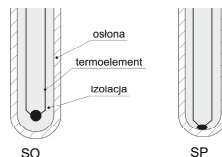
Resistors tolerance acc. to PN-EN 60751

Class	Wire wound resistor	
	Range [°C]	Tolerance [°C]
AA	(-50÷250)	±(0,1+0,0017· t )
A	(-100÷450)	±(0,15+0,002· t )
B	(-196÷600)	±(0,3+0,005· t )

Tolerance for thermocouples class acc. to PN-EN 60584

Thermocouple	Class 1		Class 2	
	Range [°C]	Tolerance [°C]	Range [°C]	Tolerance [°C]
J Fe-CuNi	(-40÷375) (375÷750)	±1,5 ±0,004  t	(-40÷333) (333÷750)	±2,5 ±0,0075  t
K 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	T	...	E-26	...	...	...	...	...	...	...	...	...	...	...	...
Resistor Pt	OP														
Thermocouple Fe-CuNi	TJ														
Thermocouple NiCr-NiAl	TK														
With tip: flat										P					
With tip: spherical										K					
With tip: conical										S					
Sheath length L [mm]												32*			
Tip diameter d [mm]													6*		
Thread dimension														M12x1,5*	
Resistor type															Pt100*
Junction insulated from the sheath		for													SO
Junction grounded		TC													SP
Resistor class															A, B*
Thermocouple class															1, 2
Measuring circuit for RTD															2, 3, 4
Cable length L <sub>p</sub> [m]															1,5m*

\* or others acc. to requirements

### Ordering example

TTJE-26-P-10-5-M12x1-SO-2-1,5m