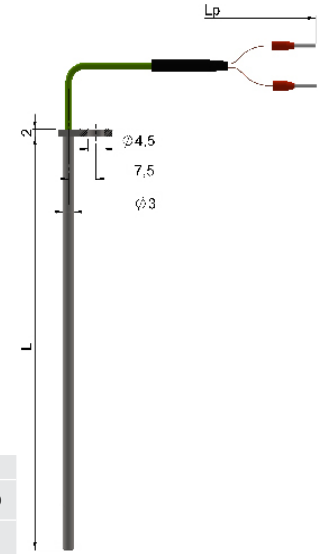


Temperature sensors of machinery and device parts **TTJE-152, TTKE-152**

Technical description

Measuring range / sensing element		
(-40 ÷ 400) °C	J, K	class 2
Sheath		
- material: steel 1.4541		
- diameter [mm]: ø3		
- length L [mm]: 20±200		
Lead wire		
- wire: 2x0,22 in fiberglass insulation		
- length L_p = 1m (standard)		
- measuring junction: isolated SO		
Options		
- thermocouple J, K: class 1		
- measuring junction: grounded SP		



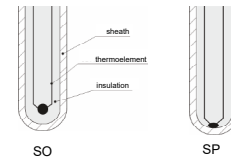
Response time T05/T09

Sensor type	ø9	ø11
J, K insulated junction	≤22/≤62	≤27/≤90
J, K grounded junction	≤3/≤8	≤6/≤15

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	TT	...	E-152
Thermocouple Fe-CuNi	J					
Thermocouple NiCr-NiAl	K					
Junction insulated from the sheath					SO	
Junction grounded					SP	
Sheath length L [mm]						100*
Cable length L_p [m]						1m*

* or others acc. to requirements

Ordering example

TTJE-152-SO-100-3m sensor with thermocouple Fe-CuNi, class 2, isolated junction, sensor sheath length L=100 mm, lead wire length L_p = 3m

TTKE-152-SO-30-1m sensor with thermocouple NiCr-NiAl, class 2, isolated junction, sensor sheath length L=30 mm, lead wire length L_p = 1m