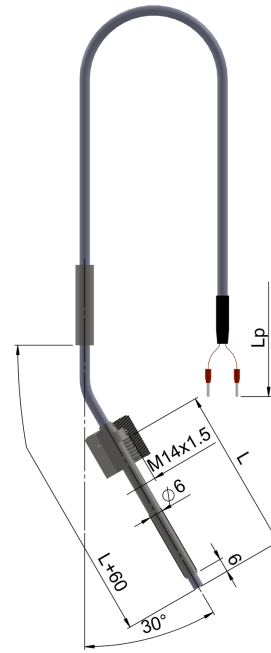


Mineral insulated thermocouple sensors PTTJ-183, PTTK-183

Technical description

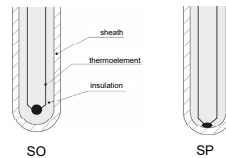
Measuring range / sensing element		
(-40 ÷ 400) °C	J	class 2
(-40 ÷ 400) °C	K	class 2
Thermowell		
– mineral insulated material: steel 1.4541 for J, Inconel 600 for K		
– mineral insulated thermocouple ø4,5 mm with sleeve and nut M14x1,5 for mounting the sensor		
– length $L_{min.}$ [mm]: 20		
Wire		
– wire: 2x0,22 mm ² in double silicone insulation		
– measuring junction: isolated SO		
– length L_p =1,5m (standard)		
Options		
– measuring junction: grounded SP		
– other lead wire insulation types: teflon, armour, fiberglass		
Additional accessories		
– mini plug SMPW – p. 198+199		
– compensation cables – p. 197		



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	PTT	...	183	-
Thermocouple Fe-CuNi	J								
Thermocouple NiCr-NiAl	K								
Junction insulated from the sheath						SO			
Junction grounded						SP			
Thermocouple class							1, 2		
Sheath length L [mm]								20*	
Cable length L_p [m]									2m*
Additional accessories: mini plug									W

* or others acc. to requirements

Ordering example

PTTK-183-SO-2-50-3m sensor with mineral insulated thermocouple NiCr-NiAl, class 2, isolated junction, sheath length L = 50 mm, lead wire length L_p = 3m