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Temperature senors of machinery and device parts **TTPJ-187, TTPK-187**

Technical description

Measuring range / sensing element

(-40 ÷ 600) °C **J, K** class 2

Sheath

– connector and tip, material: steel 1.4541
– mineral insulated J, material: steel 1.4541
– mineral insulated K, material: Inconel 600
– length L [mm]: 50÷100, L_1 [mm]: 30÷100

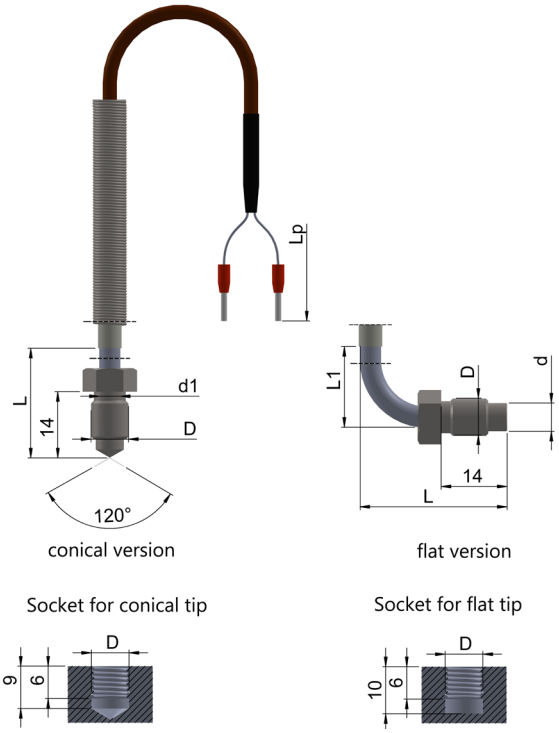
D	M10x1; M10x1,5	M8x1; M8x1,25	M6
d	6; 5; 4	5; 4	4
d_1	1; 1,5; 2; 3; 4,5	1; 1,5; 2; 3	1,5; 2

Lead wire

– thermocouple wire: 2x0,22 mm² in fiberglass insulation and metal braid
– measuring junction: isolated SO
– length L_p=1,5m (standard)

Options

– other cable insulationssilikon, teflon acc. to requirements
– measuring junction: grounded SP
– thermocouple J, K: class 1



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|

Ordering code

Temperature sensor	TTP	... –	187 –	... –	... –	... –	... –	... –	... –	... –	...
Thermocouple Fe-CuNi		J									
Thermocouple NiCr-NiAl		K									
Tip: flat				P							
Tip: conical				S							
Junction insulated from the sheath					SO						
Junction grounded					SP						
Thermocouple class						1, 2					
Length L or LxL$_1$ [mm]							50, 50x30*				
Tip diameter / mineral insulated diameter d/d$_1$ [mm]								5/3*			
Thread dimension									M8*		
Cable length L_p [m]										1,5m*	

* or others acc. to requirements

Ordering example

TTPK-187–S–SO–2–50x30–5/2–M8x1–1m sensor with thermocouple NiCr-NiAl, class 2, insulated junction, sheath diameter ø2 mm, cambered 50x30 mm and with conical tip ø5 mm, mounting connector M8x1, lead wire in fiberglass insulation with length L_p=1m

On request, a Quality Certificate confirming the conformity of workmanship or a Calibration Certificate of the Accredited Laboratory for Temperature Measurements at Limatherm Sensor Sp. z o.o.