



SPECIFICATION

We hereby confirm

Manufactory	Schmid-M
Products:	PTC thermistor
Part No:	<u>SM THER MZ6-90-ES</u>
Customer:	ATD Elektronik s.r.o.
	2021.07.23

www.atd-shop.com

1. GENERAL INFORMATION

PTC thermistors acc. to DIN 44081(triple sensors acc. to DIN 44082) are used to protect electrical machines against thermal overload. Thermistors have an even steeper R/T characteristic as that defined in the DIN standard. The temperature range is from 60 to 180°C.PTC thermistor beads with different rated response temperatures can be connected in series. This permits an optimal and economic thermal protection of machines and windings with difference limit temperatures.



2. TECHNICAL DATA PTC acc. To DIN 44081/082

	PTC single	PTC triple	
Max. operating voltage	30	30	V
Rated response temperature Tk	60-180	60-180	°C
Tolerance of Tk	± 5	± 5	K
Reproducibility of Tk	± 0,5	± 0,5	K
Resistance R25	< 100	< 300	Ω
Resistance at a temperature of Tk -5K	< 550	< 1650	Ω
Resistance at a temperature of Tk +5K	> 1330	>3990	Ω
Resistance at a temperature of Tk +15K	> 4	> 12	kΩ
Thermal Response time Td	< 5	< 5	s
Insulation test voltage V	AC 2.5	AC 2.5	kV
Max. operating temperature	200	200	°C
Max. storage temperature	160	160	°C
Min. storage temperature	-25	-25	°C
Weight	2	3,5	g

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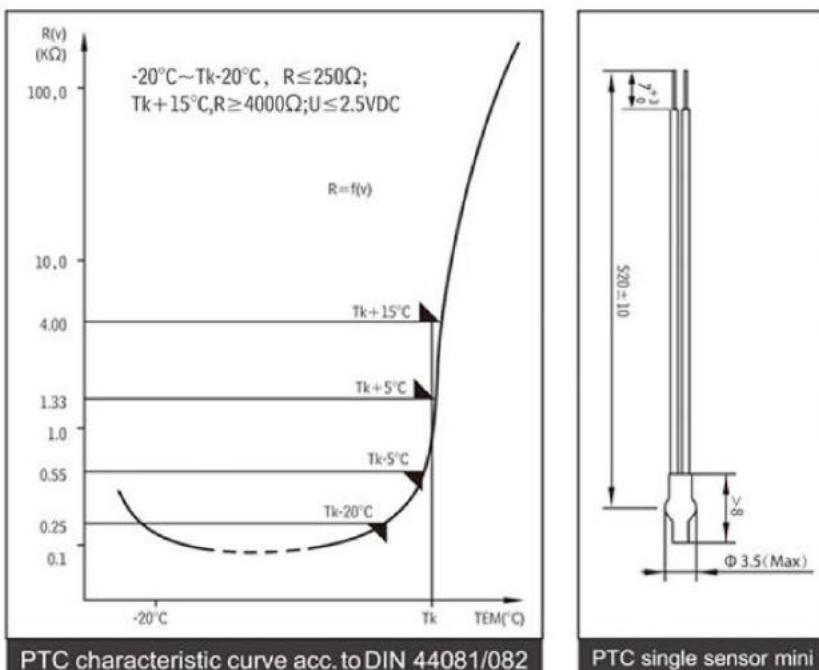
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3. PTC IDENTIFICATION & PART NUMBERS

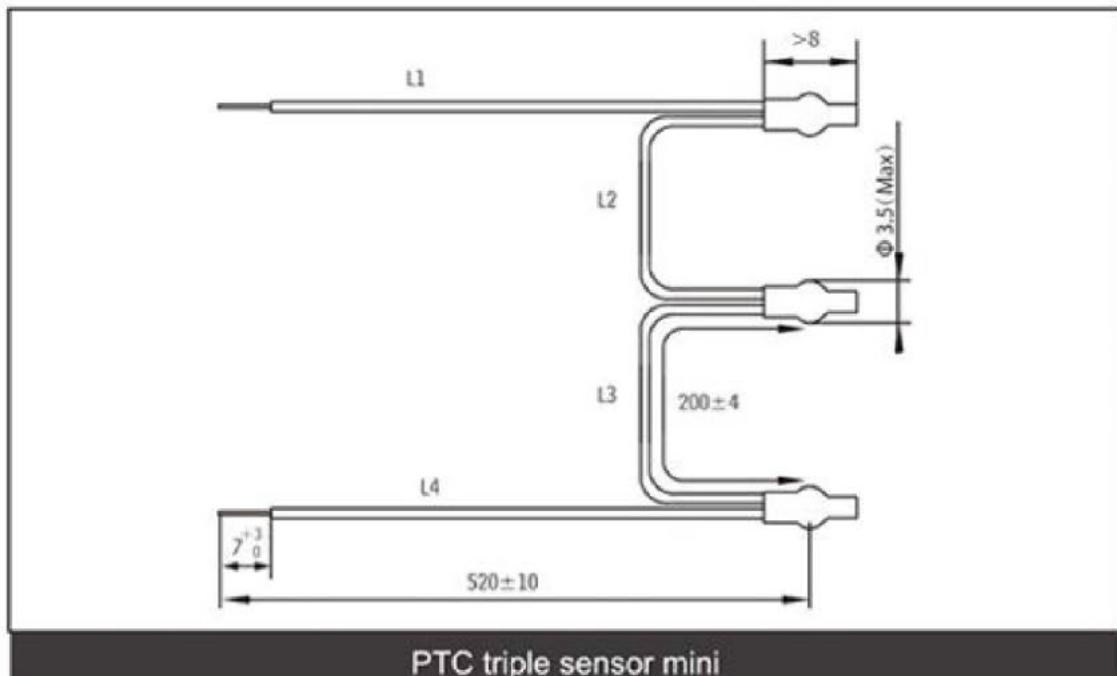
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The Colour of the connection leads identifies the rated response temperature.
These are defined in DIN 44081/082

TK(°C)	PTC DIN 44081	PTC DIN 44082
60	SM THER MZ6-60-E	SM THER MZ6-60-D
70	SM THER MZ6-70-E	SM THER MZ6-70-D
80	SM THER MZ6-80-E	SM THER MZ6-80-D
90	SM THER MZ6-90-E	SM THER MZ6-90-D
100	SM THER MZ6-100-E	SM THER MZ6-100-D
110	SM THER MZ6-110-E	SM THER MZ6-110-D
120	SM THER MZ6-120-E	SM THER MZ6-120-D
130	SM THER MZ6-130-E	SM THER MZ6-130-D
140	SM THER MZ6-140-E	SM THER MZ6-140-D
145	SM THER MZ6-145-E	SM THER MZ6-145-D
150	SM THER MZ6-150-E	SM THER MZ6-150-D
155	SM THER MZ6-155-E	SM THER MZ6-155-D
160	SM THER MZ6-160-E	SM THER MZ6-160-D
170	SM THER MZ6-170-E	SM THER MZ6-170-D
180	SM THER MZ6-180-E	SM THER MZ6-180-D



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Application

PTC thermistors are used to monitor temperature in machines and installations. The design ensures short response times and easy installation.