

PTC – Single Sensors (KE)

Description: Single resistor (1 PTC pill) with single shrinkable tubing manufactured according to DIN 44082

Pill size: Mini pill $\varnothing < 3\text{mm}$

Pill insulation: $T < 160^{\circ}\text{C} \Rightarrow$ Kynar-shrinkable tubing
 $T \geq 160^{\circ}\text{C} \Rightarrow$ PTFE-shrinkable tubing

Connection line: single litz wires

Cable length: 500/500mm

Cable insulation: PTFE

Dielectric strength: 2,5 kV

Cold resistance: $R_{25} < 300\Omega$

Temperature:

Operating temperature: - $25^{\circ}\text{C} \dots + 200^{\circ}\text{C}$;
 above $+200^{\circ}\text{C}$, a possible self-heating due to the measuring current has to be considered.

Nominal response temperature (NAT): $+ 60^{\circ}\text{C} - + 190^{\circ}\text{C}$

Tolerance

$\pm 5\text{K}$ according to DIN 44082 (incl. NAT 160°C)
 $\pm 7\text{K}$ according to DIN 44082 (from NAT 170°C)

NAT

60°C

70°C

80°C

90°C

100°C

110°C

120°C

130°C

140°C

145°C

150°C

155°C

160°C



170°C



180°C

190°C

Colour code (IEC757)

WH/GY  

WH/BN  

WH/WH  

GN/GN  

RD/RD  

BN/BN  

GY/GY  

BU/BU  

WH/BU  

WH/BK  

BK/BK  

BU/BK  

BU/RD  

WH/GN  

WH/RD  

BK/GY  

Electrical values

max. operating voltage: 30V (temperature range $T_A = 0^{\circ}\text{C} \dots +40^{\circ}\text{C}$)
 max. measurment voltage: 7,5V