

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. measurement voltage: 7,5V