

## PTC – Triple Sensors (KD)

**Description:** Triple resistor (3 PTC pills) 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:** 500/180/180/500mm

**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  $160^\circ\text{C}$ )  
 $\pm 7\text{K}$  according to DIN 44082 (from NAT  $170^\circ\text{C}$ )

NAT

$60^\circ\text{C}$

$70^\circ\text{C}$

$80^\circ\text{C}$

$90^\circ\text{C}$

$100^\circ\text{C}$

$110^\circ\text{C}$

$120^\circ\text{C}$

$130^\circ\text{C}$

$140^\circ\text{C}$

$145^\circ\text{C}$

$150^\circ\text{C}$

$155^\circ\text{C}$

$160^\circ\text{C}$

$170^\circ\text{C}$

$180^\circ\text{C}$

$190^\circ\text{C}$

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