

## MF5C drop sensor series

### FEATURES

- Multi-sealed structures are available according to different purposes
- High precision of resistance value and B value, good consistency, allowable exchange
- High sensitivity, quick reaction
- Wide temperature area, good stability and high reliability

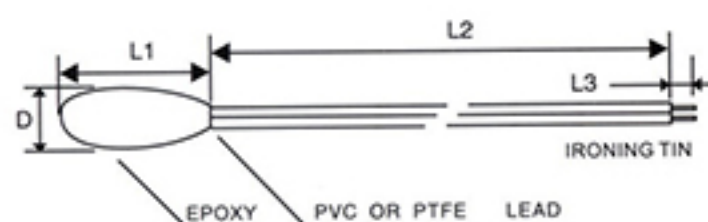
### PURPOSE

- Temperature measurement
- Temperature control
- Temperature compensation

### APPLICABLE SCOPE

- Specially applied to the temperature measurement and control of battery sets and home appliances

### EXTERIOR STRUCTURE AND SIZE



Unit: mm D, L1, L2, L3 Size can be made according to customers' requirements

### MAIN TECHNICAL SPECIFICATIONS

Specification Name	Scope	Detection Conditions
$R_{25}$ (nominal resistance value)	500 $\Omega$ ~ 5 M $\Omega$	Constant temperature 25 $^{\circ}$ C $\pm$ 0.05 $^{\circ}$ C
$R_{25}$ Permissible variance (%)	$\pm$ 1, $\pm$ 2, $\pm$ 3, $\pm$ 5	Constant temperature 25 $^{\circ}$ C $\pm$ 0.05 $^{\circ}$ C
$B_{25/50}$ (material coefficient) (thermal-sensitivity index)	3000 ~ 5000 K	Constant temperature 25 $^{\circ}$ C $\pm$ 0.05 $^{\circ}$ C Constant temperature 50 $^{\circ}$ C $\pm$ 0.05 $^{\circ}$ C
$B_{25/50}$ value permissible variance (%)	$\pm$ 1, $\pm$ 2	Constant temperature 25 $^{\circ}$ C $\pm$ 0.05 $^{\circ}$ C Constant temperature 50 $^{\circ}$ C $\pm$ 0.05 $^{\circ}$ C
$f$ (dissipation coefficient)	$\geq$ 0.7mw/ $^{\circ}$ C	Static in the air
T (thermal time constant)	$\leq$ 30S	Static in the air
$T_A$ (working temperature)	-40 $^{\circ}$ C ~ +105 $^{\circ}$ C	
$P_N$ (rated power)	$\leq$ 50mw	Within working temperature



### DESCRIPTION OF MODEL AND SPECIFICATIONS

K P D / MF5C - 1 0 3 G - 3 9 5 F  
 ①            ②            ③    ④            ⑤    ⑥

- Acronym of Kepengda
- Sensor code
- Nominal resistance value of thermistors, e.g. 103 expresses that the Nominal resistance value of the resistor is  $10 \times 10^3 (\Omega)$
- Error of the resistance value of the thermistor (precision), e.g. G expresses that error of the resistance value (precision) is  $\pm 2\%$
- Thermal-sensitivity index of the thermistor (material co-efficient)  $B_{25/50}$  Value, e.g. 395 expresses the material co-efficient  $B_{25/50}$  of the thermistor is  $395 \times 10(K)$
- Error of  $B_{25/50}$  value (precision), e.g. F expresses that error of  $B_{25/50}$  value (precision) of the resistor is  $\pm 1\%$

Note: ①  $R_{25}$  precision: F ( $\pm 1\%$ ); G ( $\pm 2\%$ ); H ( $\pm 3\%$ ); J ( $\pm 5\%$ ); K ( $\pm 10\%$ )  
 ②  $B_{25/50}$  value precision F ( $\pm 1\%$ ); G ( $\pm 2\%$ );