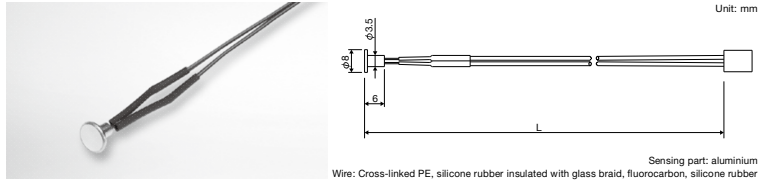


Surface temperature

KN1

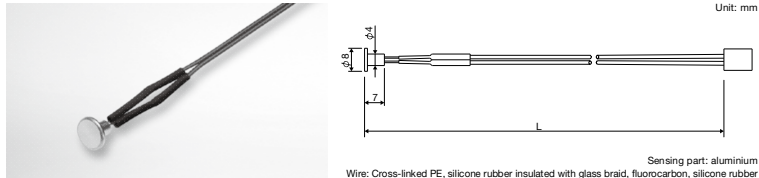


Unit: mm
Sensing part: aluminium
Wire: Cross-linked PE, silicone rubber insulated with glass braid, fluorocarbon, silicone rubber
Other options available

Aluminium casing: fast response Response is compared to other Shibaura surface temperature sensors

Features	• Fast response solution with low cost design
Applications	IH cooking devices
Operating temperature	-20 to +300°C
Thermal time constant	$\tau \approx 0.7$ sec. (on an aluminium plate at 100°C)
Dissipation constant	$\delta \approx 2$ mW/°C
Withstand voltage	1800VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	R100 = 3.3k Ω
B constant	B0/100 = 3970K

KN2

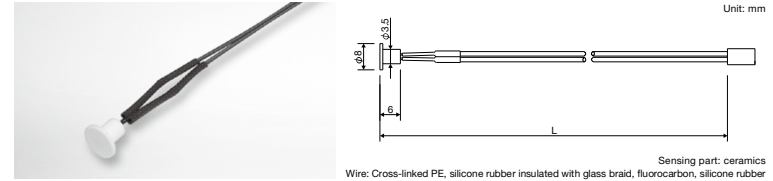


Unit: mm
Sensing part: aluminium
Wire: Cross-linked PE, silicone rubber insulated with glass braid, fluorocarbon, silicone rubber
Other options available

Aluminium casing: standard

Features	• Surface temperature sensing solution with low cost design
Applications	IH cooking devices
Operating temperature	-20 to +300°C
Thermal time constant	$\tau \approx 4$ sec. (on an aluminium plate at 100°C)
Dissipation constant	$\delta \approx 3$ mW/°C
Withstand voltage	1000VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	R100 = 3.3k Ω
B constant	B0/100 = 3970K

KN3

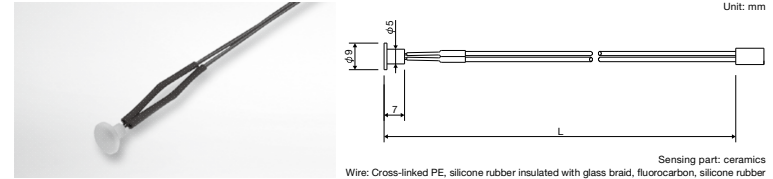


Unit: mm
Sensing part: ceramics
Wire: Cross-linked PE, silicone rubber insulated with glass braid, fluorocarbon, silicone rubber
Other options available

Ceramic casing: fast response Response is compared to other Shibaura surface temperature sensors

Features	• High insulation property and excellent resistance to pressure • A ceramic case provides high insulation and a shape securing mountability
Applications	IH cooking devices, IH rice cookers
Operating temperature	-20 to +300°C (only for the sensing surface)
Thermal time constant	$\tau \approx 1.2$ sec. (on an aluminium plate at 100°C)
Dissipation constant	$\delta \approx 2$ mW/°C
Withstand voltage	5000VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	R100 = 3.3k Ω
B constant	B0/100 = 3970K

KN4



Unit: mm
Sensing part: ceramics
Wire: Cross-linked PE, silicone rubber insulated with glass braid, fluorocarbon, silicone rubber
Other options available

Ceramic casing: standard

Features	• High insulation property and excellent resistance to pressure • A ceramic case provides high insulation and a shape securing mountability
Applications	IH cooking devices, IH rice cookers
Operating temperature	-20 to +300°C (only for the sensing surface)
Thermal time constant	$\tau \approx 7$ sec. (on an aluminium plate at 100°C)
Dissipation constant	$\delta \approx 3$ mW/°C
Withstand voltage	5000VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	R100 = 3.3k Ω
B constant	B0/100 = 3970K