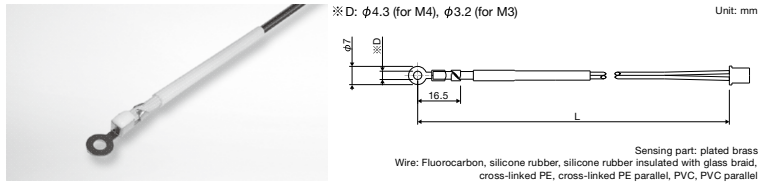


## Equipped with a lug terminal

### RTZ1

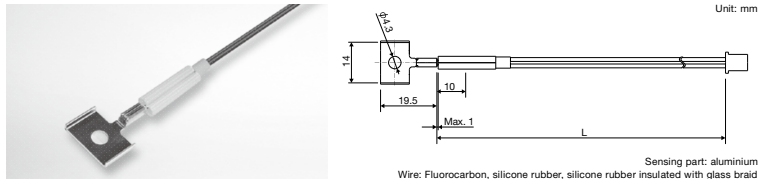


#### High heat resistance and fast response

Heat resistance and response are compared to other Shibaura sensors equipped with a lug terminal

Features	• Sensor with a lug terminal, exhibiting fast response and high heat resistance
Applications	Hot plates for cooking devices, automobile braking systems
Operating temperature	-20 to +300°C
Thermal time constant	$\tau \approx 3$ sec. (on an aluminium plate at 100°C)
Dissipation constant	$\delta \approx 2.5$ mW/°C
Withstand voltage	500VAC for 1 sec.
Insulation resistance	Min. 100M $\Omega$ at 500VDC
Resistance	Optional
B constant	Optional

### RT1

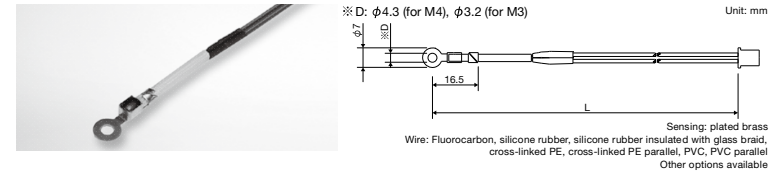


#### High heat resistance and fast response

Heat resistance and response are compared to other Shibaura sensors equipped with a lug terminal

Features	• Fast response and high heat resistance
Applications	Irons
Operating temperature	-10 to +250°C
Thermal time constant	$\tau \approx 3$ sec. (on an aluminium plate at 100°C)
Dissipation constant	$\delta \approx 3$ mW/°C
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100M $\Omega$ at 500VDC
Resistance	R150 = 3.161k $\Omega$ Other options available
B constant	B100/200 = 4537K Other options available

### RT2

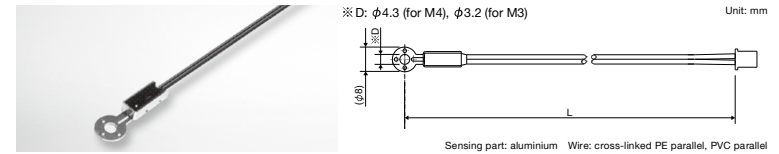


#### Standard sensor equipped with a lug terminal having high heat resistance

Heat resistance is compared to other Shibaura sensors equipped with a lug terminal

Features	• High heat resistance, fast response and designed for assemblability
Applications	Automobile inverters, heat pump water heaters
Operating temperature	-20 to +180°C
Thermal time constant	$\tau \approx 6$ sec. (on an aluminium plate at 100°C)
Dissipation constant	$\delta \approx 2.5$ mW/°C
Withstand voltage	1250VAC for 1 min. or 1500VAC for 1 sec.
Insulation resistance	Min. 100M $\Omega$ at 500VDC
Resistance	R100 = 3.3k $\Omega$ Other options available
B constant	B0/100 = 3970K Other options available

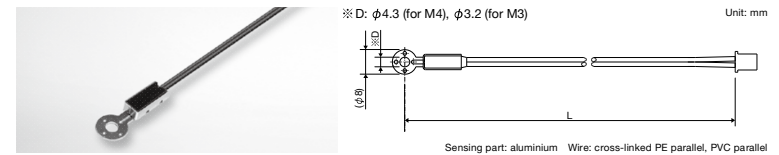
### EP2



#### Enhanced insulation: using a glass-encapsulated thermistor element

Features	• A glass-encapsulated thermistor element is sealed into a lug terminal
Applications	Heatsinks
Operating temperature	-30 to +120°C
Thermal time constant	$\tau \approx 13$ sec. (on an aluminium hot plate)
Dissipation constant	$\delta \approx 2.3$ mW/°C
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100M $\Omega$ at 500VDC
Resistance	Optional
B constant	Optional

### KTEP1



#### Enhanced insulation: using a bare thermistor chip

Features	• A bare thermistor chip is sealed into a lug terminal
Applications	Heatsinks
Operating temperature	-30 to +85°C
Thermal time constant	$\tau \approx 20$ sec. (on an aluminium hot plate)
Dissipation constant	$\delta \approx 5.5$ mW/°C
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100M $\Omega$ at 500VDC
Resistance	Optional
B constant	Optional