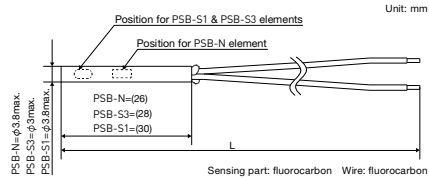


Liquid temperature

MP2

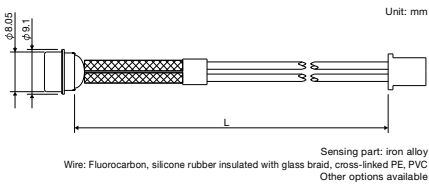


Heat, oil and solvent proof

Features	<ul style="list-style-type: none"> Excellent heat, oil and solvent proof with fluorocarbon sealing Fixing bracket design is available Applicable to high temperatures and highly accurate measurements
Applications	Showcase freezers Liquid level detection (using PSB-S3 glass-encap. thermistor element only)
Operating temperature	-30 to +200°C Please consult us when higher temperatures are required.
Thermal time constant	PSB-S1 & PSB-N glass-encap. thermistor elements $\tau \approx 8$ sec. (in stirred liquid) PSB-S3 glass-encap. thermistor elements $\tau \approx 4$ sec. (in stirred liquid)
Dissipation constant	PSB-S1 & PSB-N glass-encap. thermistor elements $\delta \approx 2\text{mW}/^\circ\text{C}$ PSB-S3 glass-encap. thermistor elements $\delta \approx 1.2\text{mW}/^\circ\text{C}$
Withstand voltage	1200VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	R100 = 3.3k Ω Other options available
B constant	B0/100 = 3970K Other options available

Hermetic

HT1



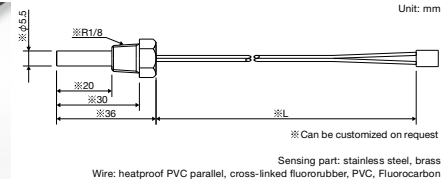
Fast response

Response is compared to other Shibaura hermetic type sensors

Features	<ul style="list-style-type: none"> Robust casing and fast response Hermetic type standard surface temperature sensor
Applications	Electric pots, dishwashers, hot plates, IH grill pans
Operating temperature	-20 to +180°C (except connector)
Thermal time constant	$\tau \approx 4$ sec. (on an aluminium hot plate at 100°C)
Dissipation constant	$\delta \approx 3\text{mW}/^\circ\text{C}$
Withstand voltage	1800VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	R100 = 3.3k Ω Other options available
B constant	B0/100 = 3970K Other options available

Equipped with a threaded tube

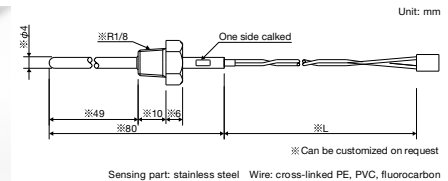
NTN1



Equipped with a customizable cut protection tube

Features	<ul style="list-style-type: none"> Standard sensor equipped with a cut nipple protection tube Excellent mechanical strength and humidity resistance with a glass-encapsulated thermistor element sealed in a stainless steel protection tube Customizable dimensions
Applications	Hot water boiler tanks, machine tool oil, medical equipment water
Operating temperature	-20 to +105°C
Thermal time constant	$\tau \approx 5$ sec. (in stirred water)
Dissipation constant	$\delta \approx 3.5\text{mW}/^\circ\text{C}$
Withstand voltage	1000VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	Optional
B constant	Optional

MPM1



Water proof solution equipped with a stainless protection tube

Features	<ul style="list-style-type: none"> Superior in mechanical strength with a combination of a stainless protection tube and a glass-encapsulated thermistor element Has a water-sealed thermistor element (using PTFE only for thermistor element lead wires) Longer protection tubes than NTN1 Customizable dimensions
Applications	Hot water boiler tanks, machine tool oil, medical equipment water
Operating temperature	-20 to +150°C
Thermal time constant	$\tau \approx 20$ sec. (in stirred water)
Dissipation constant	$\delta \approx 1.5\text{mW}/^\circ\text{C}$
Withstand voltage	1000VAC for 1 sec.
Insulation resistance	Min. 100M Ω at 500VDC
Resistance	Optional
B constant	Optional