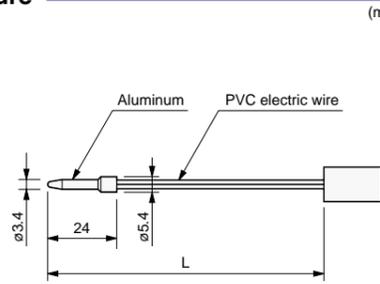
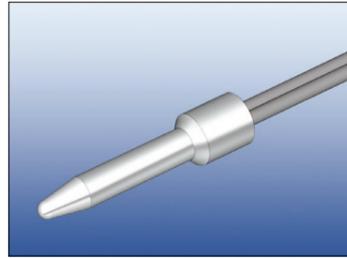




for Automotive (Car Air Conditioner)

A9 for Evaporator Temperature



(mm)

Features

Standard Aluminum protection cap solution.

Applications

Evaporator temperature detection for automotive etc.

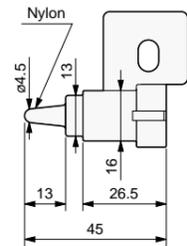
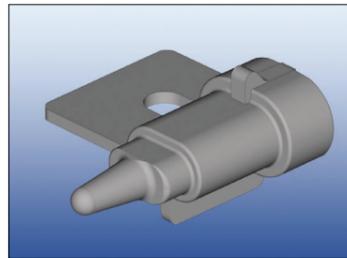
Operating temperature range

-40°C to 80°C

Thermal time constant

Approx. 3 sec. (in liquid)

A10 for Outside Air Temperature



(mm)

Features

Direct coupler type with one-piece resin casing.

Applications

Outside temperature detection for automotive etc.

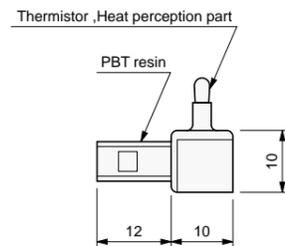
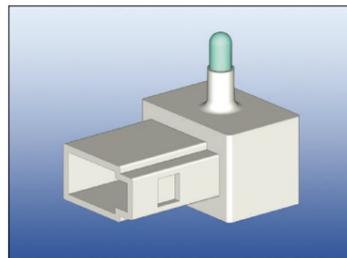
Operating temperature range

-40°C to 120°C

Thermal time constant

Approx. 10 sec. (in liquid)

A11 for Room Temperature



(mm)

Features

Direct coupler type with exposed element head.

Applications

Room temperature detection for automotive etc.

Operating temperature range

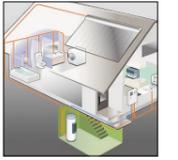
-40°C to 130°C

Thermal time constant

Less than 1 sec. (in liquid)

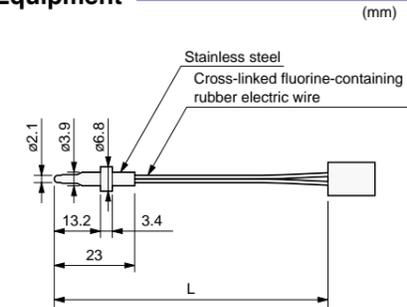
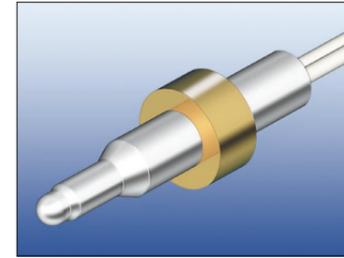
※ Above-described shapes are just for example, customized designs are available.

Water Related Equipment



for Water Related Equipment

B1 Standard Type for Water Equipment



(mm)

Features

Durable solution using NS type element. Smaller element is also applicable for faster response.

Applications

Instant water heater, heat pumps, coffee machines, toilet seat heating, floor heating and cogeneration systems etc.

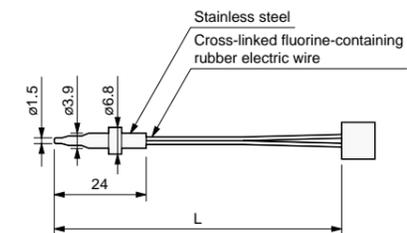
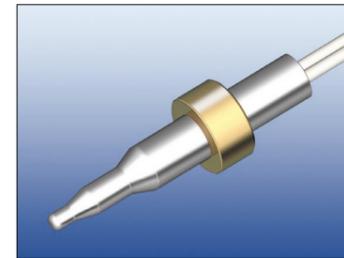
Operating temperature range

-20°C to 120°C

Thermal time constant

Less than 2 sec. (in water, 90% response time)

B2 Quick Response Type for Water Equipment



(mm)

Features

Quicker response by using PSB-S5 element. Also applicable for a level detector.

Applications

Toilet seat heating. Water heater, floor heating and cogeneration systems etc.

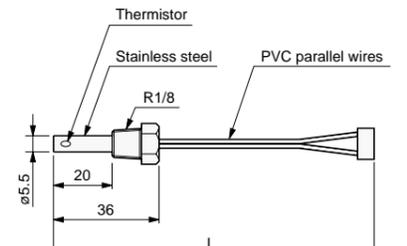
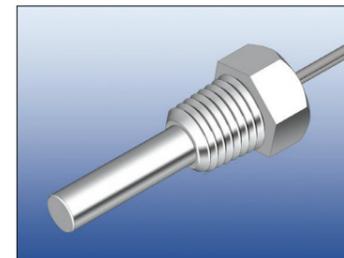
Operating temperature range

-20°C to 120°C

Thermal time constant

Less than 0.5 sec. (in water)

B3 for Boiler Temperature



(mm)

Features

Screw type water proof sensor.

Applications

Machine tools, medical devices, coffee machines and solar systems etc.

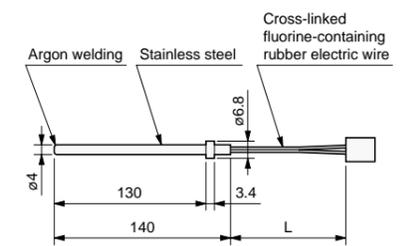
Operating temperature range

-20°C to 100°C

Thermal time constant

Approx. 5 sec. (in liquid)

B4 for Cogeneration Systems



(mm)

Features

Durable solution for water temperature detection using NS type element. Equipped with a fixing flange.

Applications

Cogeneration system equipment and water storage tanks for solar systems etc.

Operating temperature range

-20°C to 120°C

Thermal time constant

Less than 5 sec. (in water)

※ Above-described shapes are just for example, customized designs are available.