

Temperature Sensor (for Liquid)

Under development

Mass production available in 2028

- Temperature sensors using our trusted chip mounting and transfer molding technology
- Reduces variations in temperature measurement by mounting the temperature sensor with high precision

Background or assignment

Provides liquid temperature sensors for various mounting shapes

Solutions to Challenges

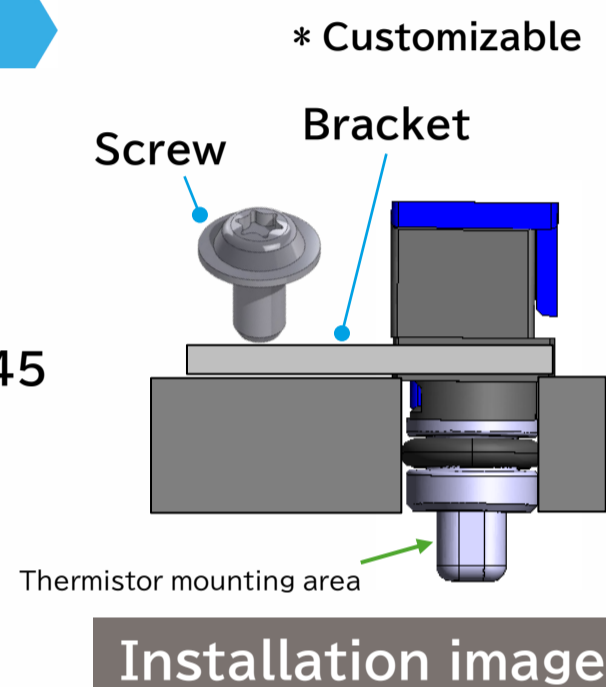
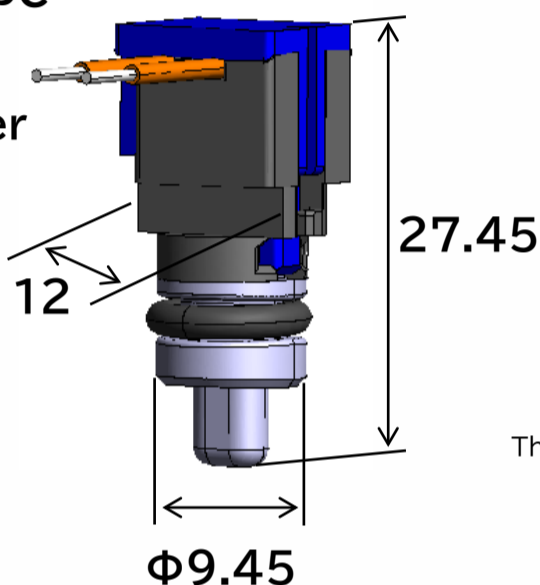
1 Oil passage direct-mount type

Features

- High thermal conductivity of transfer molded resin ensures excellent responsiveness
- Lead wire extraction type
- Fixed with bracket

Specifications

Supply voltage: $5.0 \pm 0.5V$
 Operating temperature: $-40^{\circ}C$ to $150^{\circ}C$
 Resistance value: $2k\Omega \pm 1\%$ *
 B constant: $3,530K \pm 1\%$ *



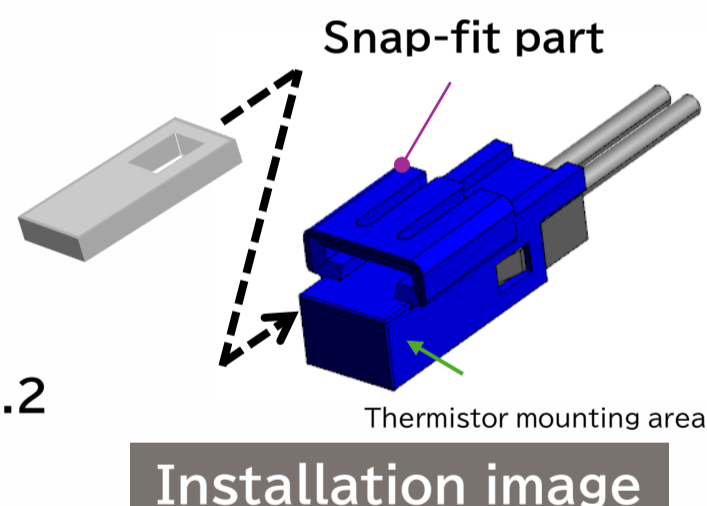
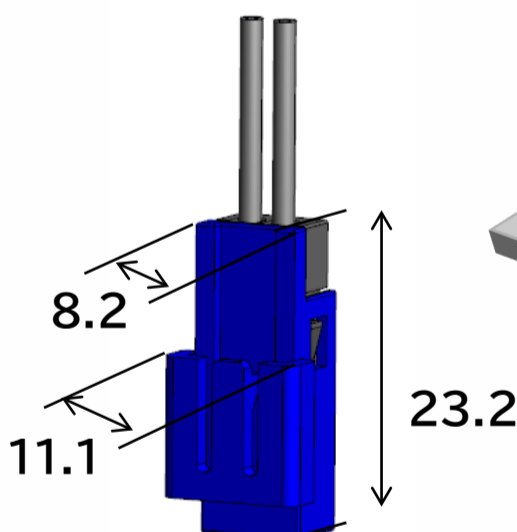
2 Oil immersion type

Features

- Lead wire extraction type
- Fixed by snap-fit

Specifications

Supply voltage: $5.0 \pm 0.5V$
 Operating temperature: $-40^{\circ}C$ to $150^{\circ}C$
 Resistance value: $2k\Omega \pm 1\%$ *
 B constant: $3,530K \pm 1\%$ *



3 Water temperature sensor

Features

- Reduces metal parts (24% reduction compared to our models)
- Connector type
- Fastened with screws

Specifications

Supply voltage: $5.0 \pm 0.5V$
 Operating temperature: $-40^{\circ}C$ to $120^{\circ}C$
 Resistance value: $2k\Omega \pm 1\%$ *
 B constant: $3,530K \pm 1\%$ *

