

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 Challenges

Provides liquid temperature sensors for various mounting shapes

Solutions to Challenges or Features

Oil temperature sensor

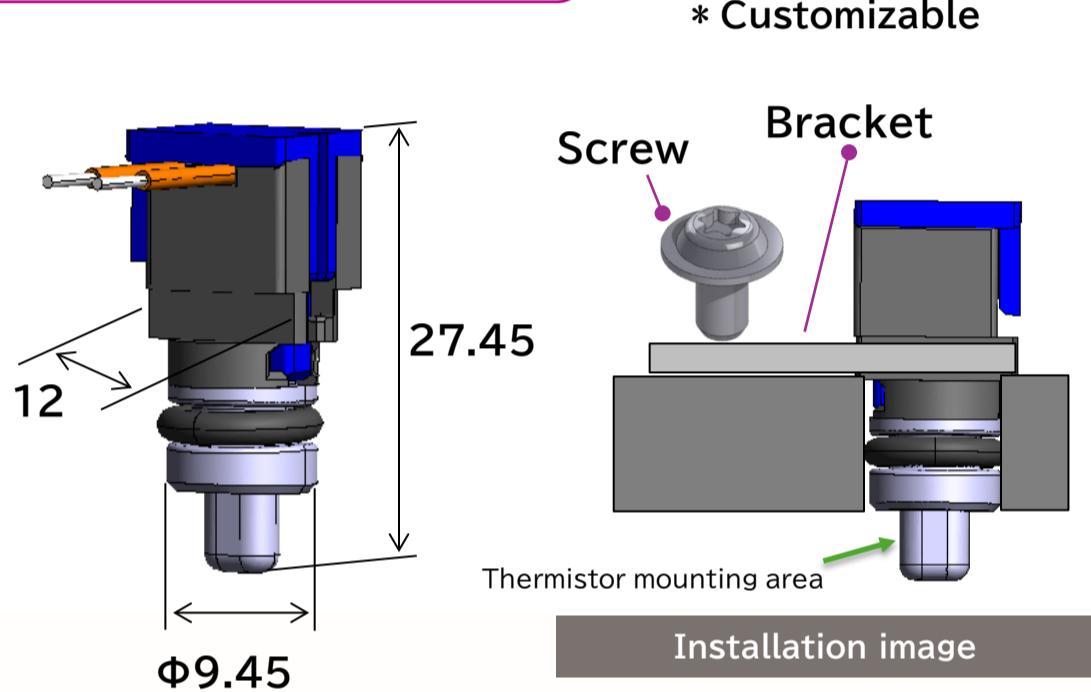
<Oil passage direct-mount type>

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: $3,530K \pm 1\%$ *



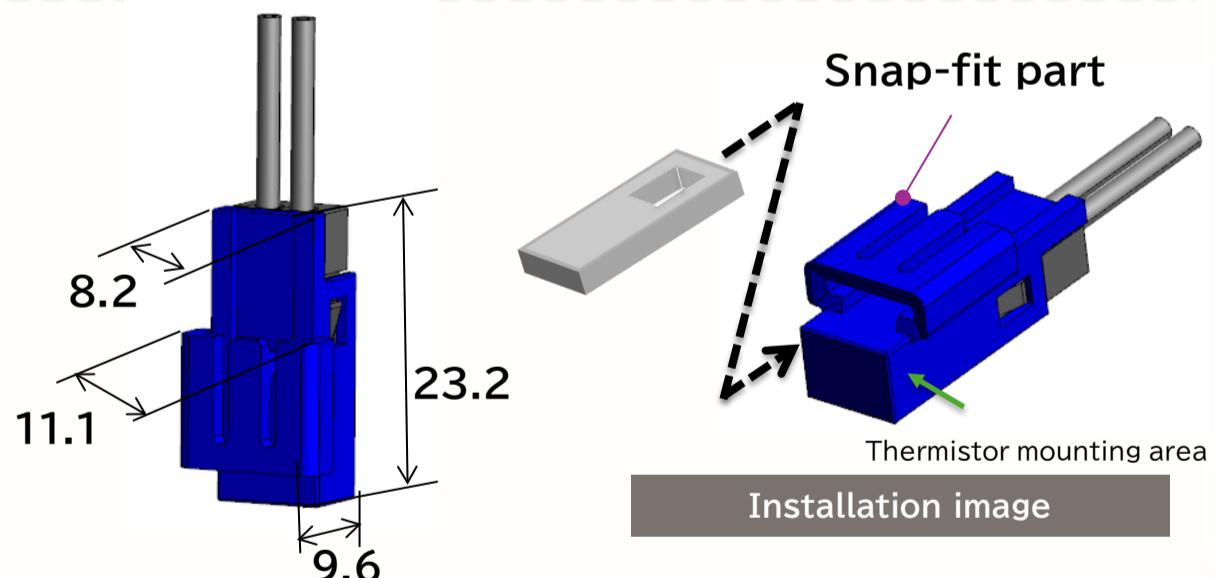
<Oil immersion type>

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: $3,530K \pm 1\%$ *



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: $3,530K \pm 1\%$ *

