

# 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

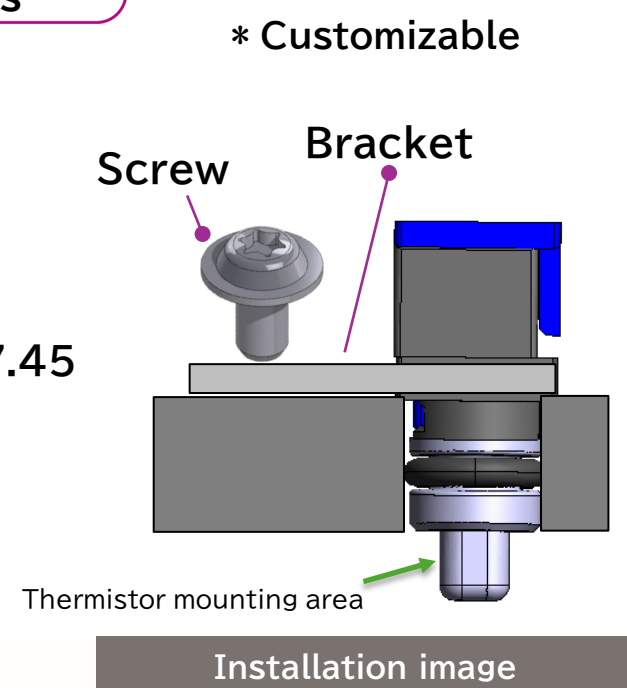
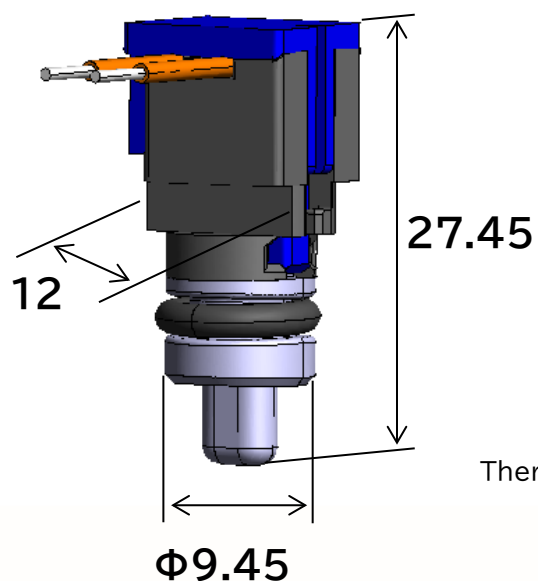
#### <Oil passage direct-mount type>

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



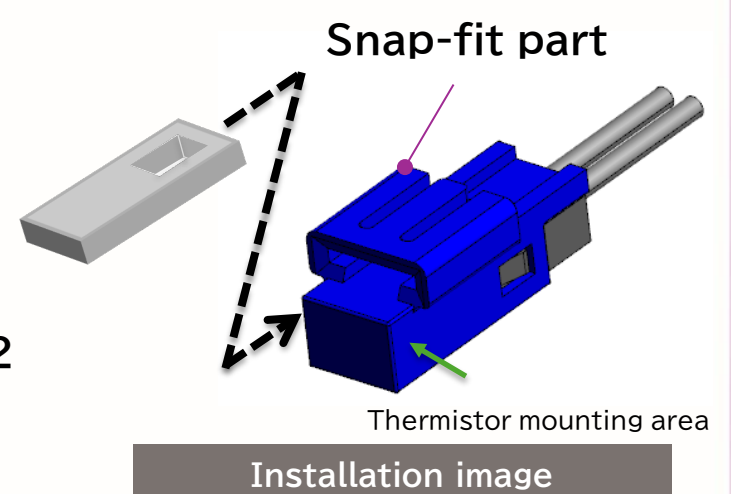
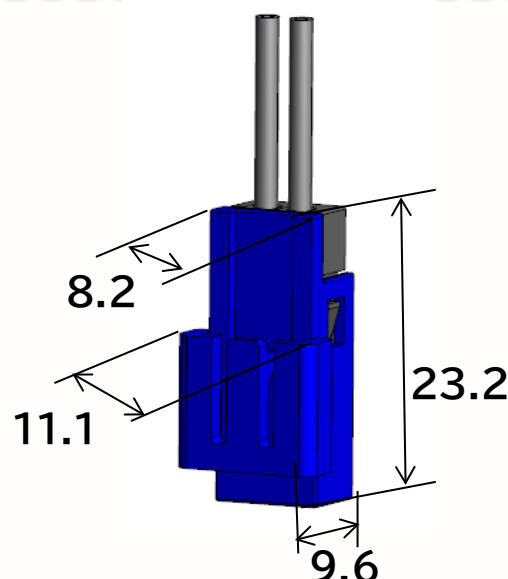
#### <Oil immersion type>

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

