

# Current Sensor with Terminal Block

Under development  
Mass production available in 2028

- Improves space efficiency by integrating terminal block
- Customizable to meet specifications such as current detection range, form, etc.

## Background or Challenges

Demand for smaller and lighter drive units, such as e-Axle, etc., for vehicle electrification

## Solutions to Challenges or Features

Application: Measures AC current converted by inverters in BEVs/HEVs/PHEVs

### Features/Effects

- 1: Integrates current sensor and terminal block with oil resistance
- 2: Customizable (detection range, form, etc.)

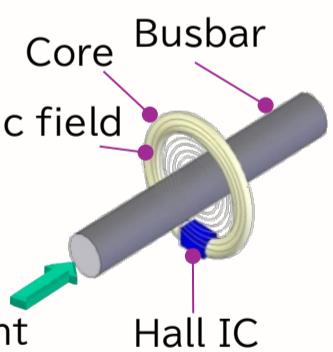
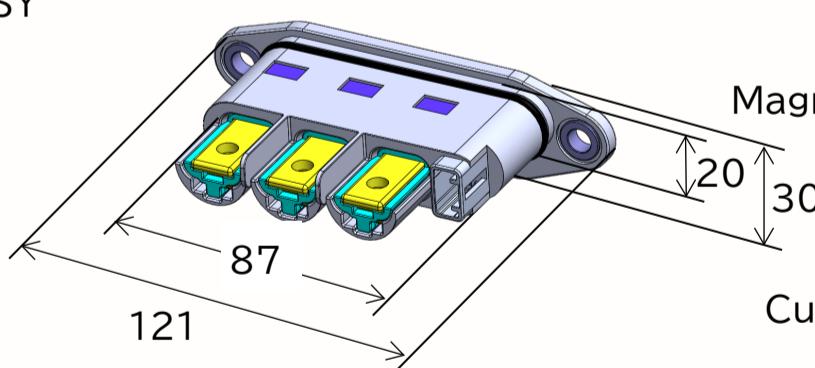
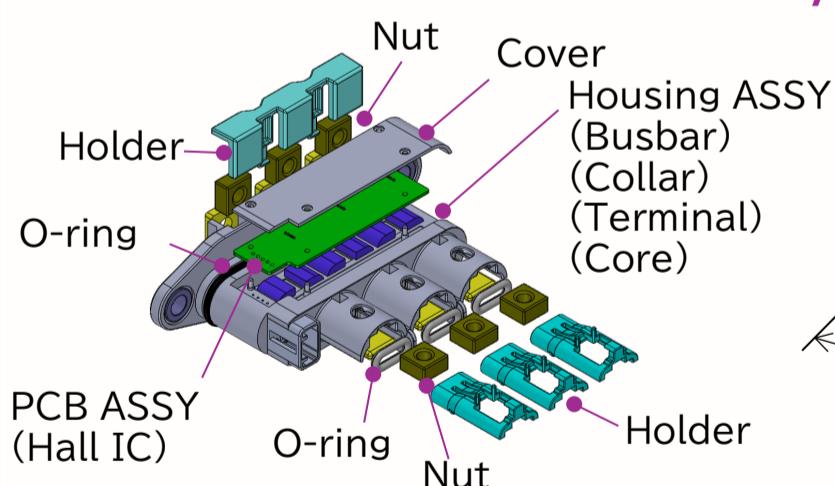


Reduces the size and weight of drive units and the number of parts

### Specifications/Functions

Supply voltage:  $5.0V \pm 0.5V$   
Operating temperature:  $-40^{\circ}C$  to  $125^{\circ}C$   
Current detection range:  $\pm 1,000A$   
Output accuracy:  $\pm 7.5A$  or less (offset)  
 $\pm 2.5\%$  or less (gain)  
Output system: Analog (ratiometric output)  
Response time:  $6\mu s$  or less  
Detection method: Detects magnetic flux density using Hall IC  
Current consumption: 42mA or less  
(Detailed specifications will be individually considered based on your requirements)

### Appearance/Structure



### System

