

# Current Sensor with Terminal Block

Under Development

Mass production available in 2028

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

## Background or Assignment

Application: Measure AC current converted by inverters in BEVs/HEVs

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

## Solutions to Challenges

### Features/Effects

- 1 Integrates current sensor and terminal block, achieving compact and lightweight design

Weight: 343g ... **36% reduced\***  
 Size: 121 x 79 x 30 mm ... **8.9% reduced\***

\* Compared with conventional Yazaki products (non-integrated)

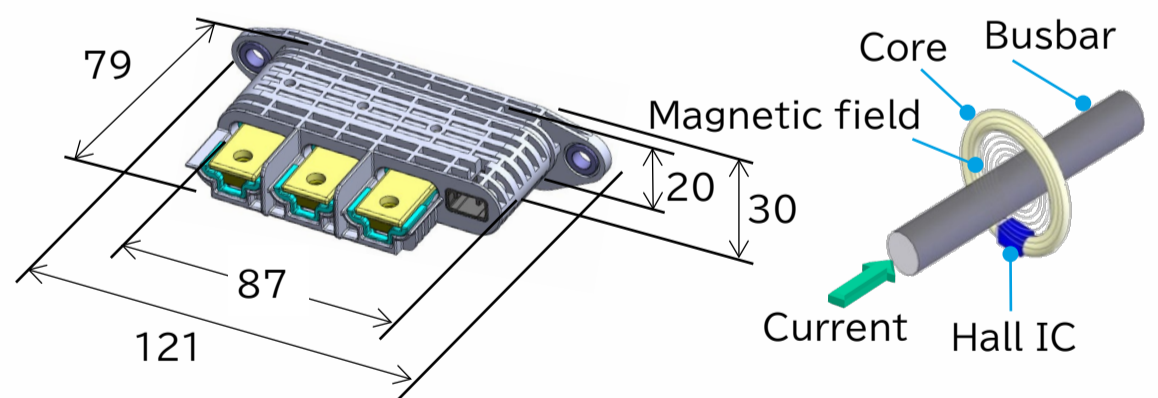
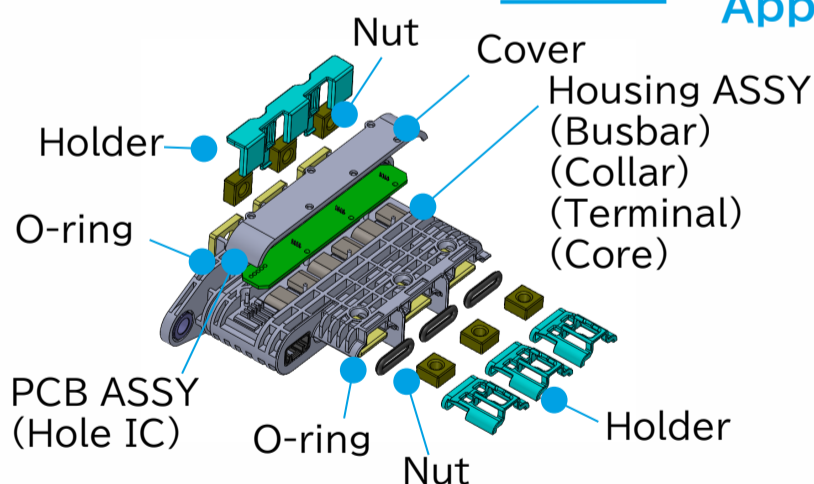
- 2 Custom design enables minimum-size solutions (form, current detection range, etc.)

### Specifications/Functions

Supply voltage : 5.0V±0.5V  
 Operating temperature : -40~125°C  
 Current detection range: ±1000 A  
 Output accuracy : ±7.5 A or less (offset)  
 ±2.5% or Less (gain)  
 Output system : Analog (ratiometric output)  
 Response time: 6μs or Less  
 Detection method : Detect magnetic flux density using Hall IC  
 Current consumption : 42mA or less

(Detailed specifications will be individually considered based on your requirements)

## Appearance/Structure



## System

