

## THE INTELLIGENT BATTERY SENSOR

### THE HELLA ADVANTAGES:

- More than 30 million intelligent battery sensors sold, all turned out with production experience stretching back to 2000.
- HELLA is one of the leading electronics companies in the automotive Original Equipment sector, bringing about knowledge transfer on the Independent Aftermarket.
- Available for 12V.
- Boasts a flexible design and offers support for countless battery models.
- Direct integration into the electrical vehicle wiring system using a LIN protocol.
- Reliable measuring of battery parameters regarding the state of charge (SOC), aging of the battery (state of health or SOH) and also the calculating of probable starting ability and functioning (SOF).
- Precise shunt-based measurement of current within high voltage applications and batteries with insulation.
- High availability of parts.
- HELLA Aftermarket sensors function as exact replacements for products found in your vehicle.



Find out all the details about HELLA's electronics product range in a totally different way – with our electronics tool. Simply scan the QR code with your smartphone or tablet.

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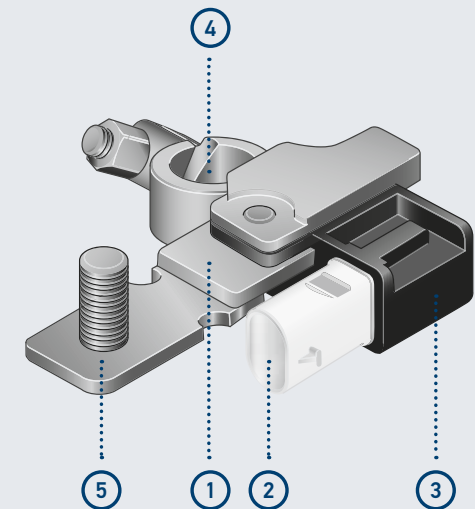


## THE INTELLIGENT BATTERY SENSOR:

## DESIGN AND FUNCTION

The IBS is incorporated into the vehicle's own energy management system – and can therefore swiftly react whenever the battery condition becomes critically low.

1. **Shunt on the sensor** serves as a measuring resistor for indirect current measurement.
2. **Connector** as an interface for energy management.
3. **Sensor module** is located in a molded housing.
4. The IBS is attached to the **negative terminal** of the battery via the pole terminal.
5. **Thread bolts** secure the ground cable.



## Take Control of Things in Good Time – with the Intelligent Battery Sensors from HELLA.

Weak batteries are considered to be one of the main reasons for vehicle breakdowns. This means that efficient energy management takes on a very significant role. And HELLA's intelligent battery sensors (IBS) can make a huge contribution to this.

When it comes to intelligent battery sensors, HELLA is the global market leader and innovation driver and, as such, successfully transfers its OE expertise in this field to the Independent Aftermarket.

So you can really rely on the mass of expert knowledge and on HELLA's electronic expertise when you also meet all this on the Independent Aftermarket – everything in top quality to guarantee top business success!

### ENERGY MANAGEMENT

