

## INTELLIGENT BATTERY SENSOR 24V

### KEY FEATURES

- ✓ Accurate measurement of battery voltage, current and temperature parameters
- ✓ Determination of the battery state of charge (SOC), state of health (SOH) condition parameters
- ✓ Simple electrical and mechanical integration



### IBS BENEFITS

The intelligent battery sensor (IBS) informs you about the current energy status, allowing you to plan your energy supply.

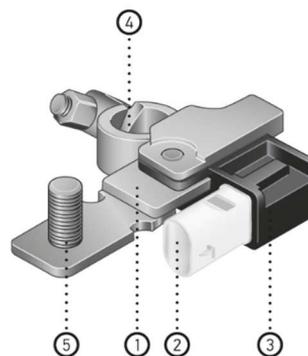
The intelligent battery sensor is the key element of the vessel's energy management.

The IBS reliably and accurately measures the battery voltage, current and temperature parameters. Information on the state of charge (SOC) and state of health (SOH) of the battery is calculated algorithmically using these measurements.

By using the intelligent battery sensor, the energy management system can react quickly in case of critical battery state and influence both consumer behavior and the alternator.

### DESIGN AND FUNCTION

The IBS is attached directly to the negative pole of the battery via the pole terminal. Alongside the terminal, the mechanical portion of the battery sensor consists of the shunt and grounding bolt. The shunt is attached to the vehicle's load path and is used as a measuring resistor to measure the current indirectly. The ground cable can be conveniently attached to the grounding bolt through the provided battery pole adapter.



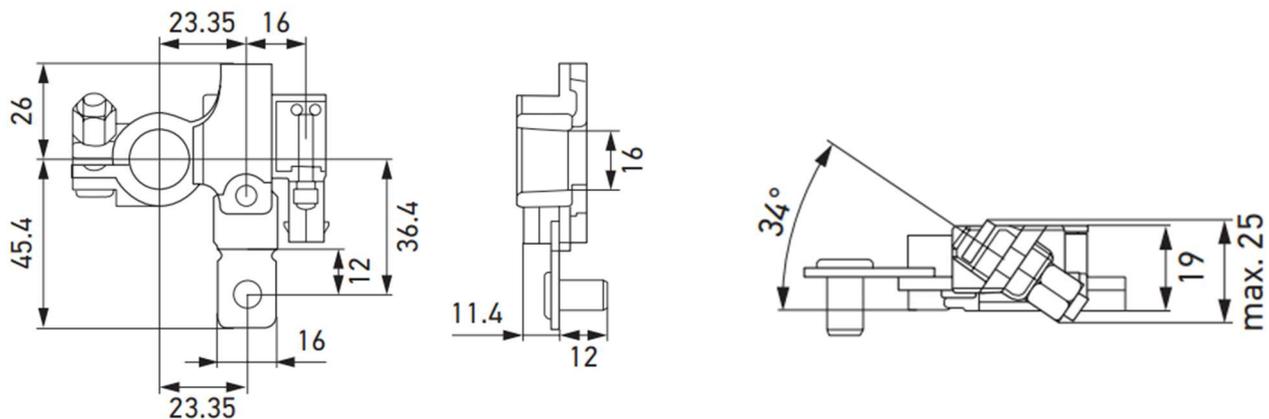
1. **Sensor shunt**
2. **Hirschmann plug**  
872-858-565
3. **Sensor module**
4. **Negative terminal clip**
5. **Screw-on bolt for battery pole adapter**

## TECHNICAL DATA

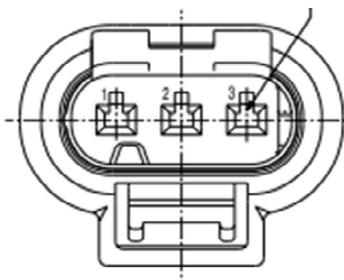
<b>Operating voltage</b>	7.5 - 32 V
<b>Operating current (permanent)</b>	± 200 A
<b>Maximum current</b>	± 2000 A (20 ms)
<b>Protection class</b>	IP 6K7
<b>Power consumption</b>	≤ 16 mA (normal mode) ≤ 230 µA (sleep mode)
<b>Max battery capacity</b>	255 Ah
<b>Operating temperature</b>	-40°C to 80°C
<b>Grounding bolt</b>	M8
<b>Output signal</b>	LIN 2.0 or higher



## DIMENSIONS



## PIN ASSIGNMENT



- Pin 1: Partial Voltage +12V
- Pin 2: LIN Bus
- Pin 3: +24 V Power supply

## PART NUMBER

**PART NO.**

B00072101

**VARIANT**

Intelligent Battery Sensor 24V