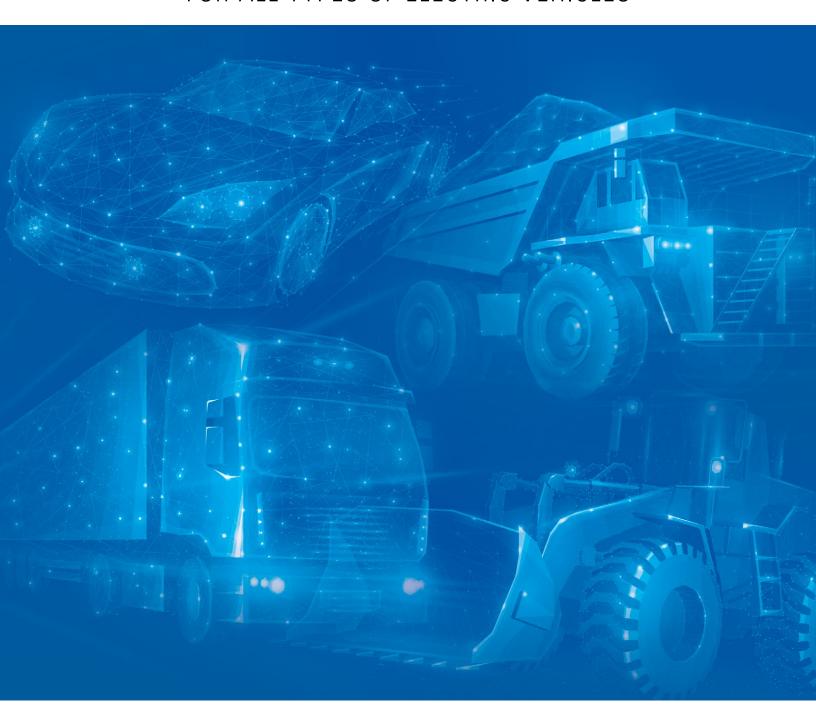
HIGH-CURRENT SENSING SOLUTIONS FOR ALL TYPES OF ELECTRIC VEHICLES

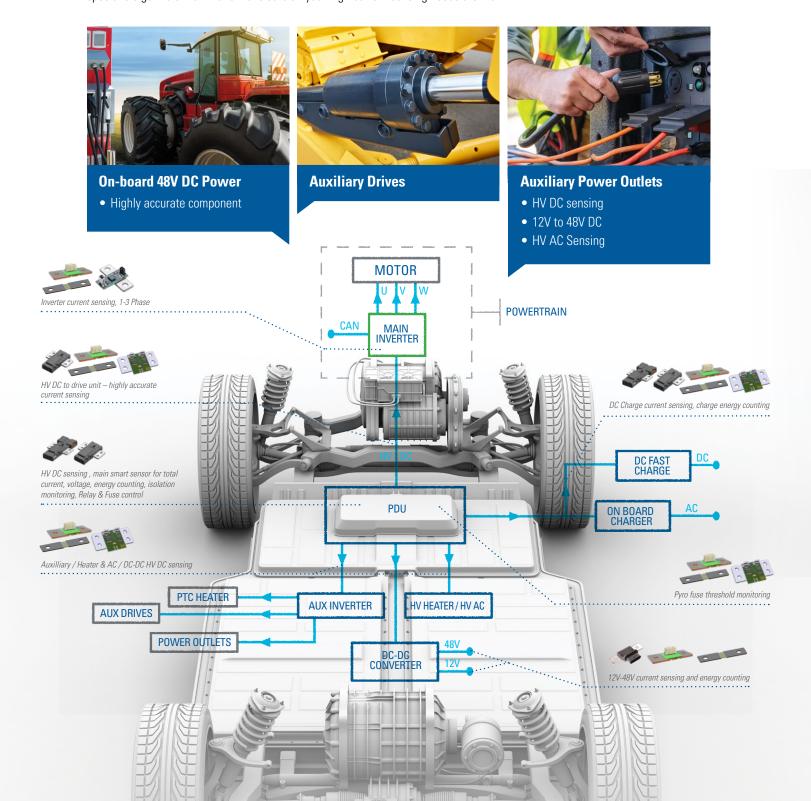




HIGH-CURRENT SENSING SOLUTIONS
HIGH-CURRENT SENSING SOLUTIONS

SENSOR EXCELLENCE... EVERYWHERE YOU NEED IT!

We have applications in some of the most popular and hard-working vehicles all over the world including commercial trucking, mining, and agriculture in addition to automotive. Our engineers and applications specialists go the extra mile to make sure all your high-current sensing needs are met.



DESIGNING A BETTER BDU/PDU

Next-gen applications in EV and charging infrastructure need to:

- Deal with high current levels
- Support **auxiliary AC systems** like drives or refrigeration
- Accommodate increased battery capacities
- Charge faster, to match market demands

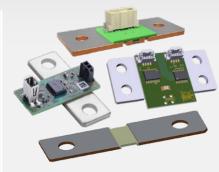
All of this means being 100% certain of your operational parameters (current, voltage, temperature), while finding new ways to put more performance into tight spaces and safe, economical designs.



Current Sensing for PyroFuse control



- 12V-48V current sensing
- DC sensing
- Cranking current sensing for hybrids
- Low voltage auxillary applications



- AC or DC sensing
- Current Sensing for PyroFuse control



- HV DC sensing
- Main smart sensor for total current, voltage, energy counting, isolation and monitoring
- Relay & fuse control
- ASIL rated

A BETTER SENSOR STARTS WITH BETTER ALLOYS.

We've been making our own for 500 years.

Our precision alloys are manufactured to comply with the strictest tolerances and satisfy all national and international standards. This results in an exceptionally high level of quality that is renowned in the industry.

These alloys are used in many areas of electronics and electrical engineering and are supplied in many different forms and types. Our alloys MANGANIN®, ZERANIN®, ISAOHM® and NOVENTIN® are homogenous solid-solution alloys that are annealed and stabilized in the primary thermodynamic state—guaranteeing stability values in the ppm range per annum.

It is these exceptional materials that are at the heart of our sensing products.



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ANALOG SOLUTIONS DIGITAL SOLUTIONS BAS/BAX/BAN BAV BSS/BSX/BSN ISH ICD IVT 3.0 base IVT 3.0 pro INTERFACE Analog (Weld-on) Analog (Pin-on) Analog (Connector) Analog (Ratiometric) LVDS CAN 2.0 A/B CAN 2.0 B CAN 2.0 B **CURRENT RANGE** 220-600A 100-500A 1000A 1000A 100-2500A 600-1000A 100-2500A 1000A **TEMPERATURE RANGE** -65° C to 170° C -65° C to 170° C -40° C to 150° C -40° C to 105° C -40° C to 85° C -40° C to 105° C -40° C to 125° C -40° C to 125° C 5% tolerance **ACCURACY** 0.4% of reading 0.4% of reading 5% tolerance 5% tolerance 0.5% of reading 0.5% of reading 0.4% of reading DMC code: 0.2% Temp sensing • High voltage sensing (3-6 NTC analog output Temp sensing Temp sensing channels) • Bandwidth(3dB) <=150kHz. NTC analog output ASIL-rated Optional temperature Resistance range Laser welded press fit sense Monitors own supply voltage · Active isolation monitoring **MAIN FEATURES** Dual-channel option 1.5kV galvanic isolation • 12V or 24V Power supply compensation with printed 0.005 to 0.1m0hms Sleep mode ASIL-rated connections values on label 5V power supply 5V Power supply · Optional analog 12V or 24V Power supply 12V Power supply · Up to three current readings sensing channel Optional analog sensing channel



You can **expect more** from us.

EXPECT MORE.

We believe that imagination and innovation are the fuel for forward progress. We are intensely focused on our customers and their challenges—always looking for new possibilities and ways to help them win. The crucial factor for our success as a technology leader is the concentration of a wide range of production steps and proprietary technologies in-house. Our vertically integrated value chain—and the continuous improvement of processes—are the basis of our outstanding technical and innovative capability.

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Isabellenhütte USA is headquartered in Swansea MA and has developed an industry-wide reputation for providing high-quality products and unparalleled customer support. We are known worldwide in industries ranging from aerospace and medical to energy and automotive. 500 years ago, a simple copper smelter perfected techniques to serve a customer base. Today, Isabellenhütte is one of the world's leading manufacturers of precision measurement systems, resistance, and thermo alloys as well as high power resistors. We call this journey "Innovation by tradition." Isabellenhütte USA is a wholly owned subsidiary of Isabellenhütte Heusler GmbH KG, located in Dillenburg, Germany.



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