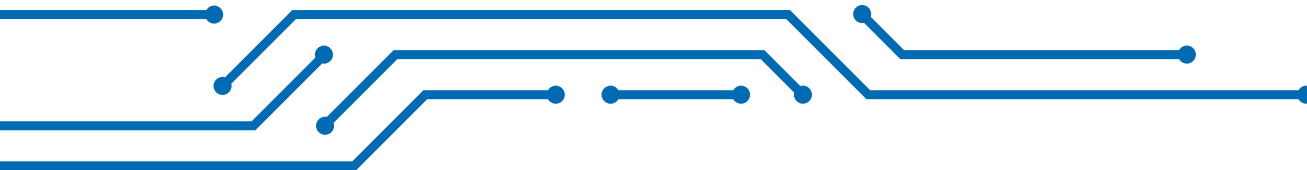


ELECTRONIC COMPONENTS AND
SYSTEMS FOR YOUR VEHICLE CONCEPT



„We always can rely on a fast and smooth order processing and a delivery in time“.

Christopher Willuhn • HAKO GmbH

„The comprehensive range at miunske® offers products we need, even very special products. Particularly highlighted are the short delivery times“.

Uwe David • DATEKO Gesellschaft für Informationstechnik mbH

„We rely on quality with our business partners as well! Not only the service but also the quality of the product is solid“.

Uli Leube • TS Fahrzeugtechnik GmbH



„Our innovative vehicles include a lot of development work. miunske® always provides advise and support with their special know-how. They are highly flexible and able to react fast on modification requests“.

Friedrich Neu • Brandschutztechnik Görlitz GmbH

„Next to good reachability and a trustworthy communication we appreciate the competent advisory. miunske® always manages to find a solution!“

Stefan Lindner • Traktorenwerk Lindner GmbH



STRONG PERFORMANCE

TRADE & CONSULTING

DEVELOPMENT & MANUFACTURE

ORDER PICKING & AVAILABILITY OF STOCK

miunske® is a certified, internationally accepted supplier of components and systems for commercial vehicles and mobile working machines. Our product and performance range includes single articles as well as complete concepts for electrical and electronic modules.

COMPETENCIES

OPERATION

DISPLAY

SIGNALING

CONNECTING

CENTRAL ELECTRICS

MONITORING

CONTROLLING

SYSTEMS INTEGRATION

MODULES



TRADE & CONSULTING

Our online catalog provides a wide range of electric and electronic components. Please take our consultancy for your solutions and we will deliver the matching product. Or we commonly check whether a customized development makes sense. Benefit from our knowledge and longterm experience!

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DEVELOPMENT & MANUFACTURE

A concept becomes reality - therefore our R&D department takes care, implementing their competencies in **hard- and software as well as construction**. You can count on our high performance regarding customized controls based on our modular standard components. From the realization of prototypes up to serial production – all the processes are in one hand.

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ORDER PICKING & AVAILABILITY OF STOCK

With our large selection we are able to respond fast and easy to your requirements. Our warehouse capacities enables us to store and deliver in time. Furthermore we support Kanban – controlled supply chains.

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CAN control unit
with 4 function fields



Contura V rocker switches



Contura V turn signal lever



Operating panel consisting
of 4 CAN control units

OPERATION

We provide operational and display solutions for various applications. Whether it's retrofitting, special vehicle construction or large series manufacturing – our wide range of switches as well as our customizable CAN control and display units allow us realizing operational concepts of all kinds.

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CAN control- and display unit with functional layout



Instrument cluster Quik Plus



Indicator lights combination



Display solution
Topcon A3 Eco

DISPLAY

Additionally to our integrated display options of our switch panels we realize more complex visualization needs via the displays of MTA or Topcon. They include combinations with mirror and camera systems as well.

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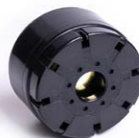
MODULES



Signaler



Rotating beacon light Boule



Signaler



CAN Multi-Sound-Module

SIGNALING

Especially mobile working machines and special vehicles do have an increased demand for optical and acoustical signaling. Our innovative Multi-Sound-Module is a modern solution next to established products like beacons and reverse warning systems.

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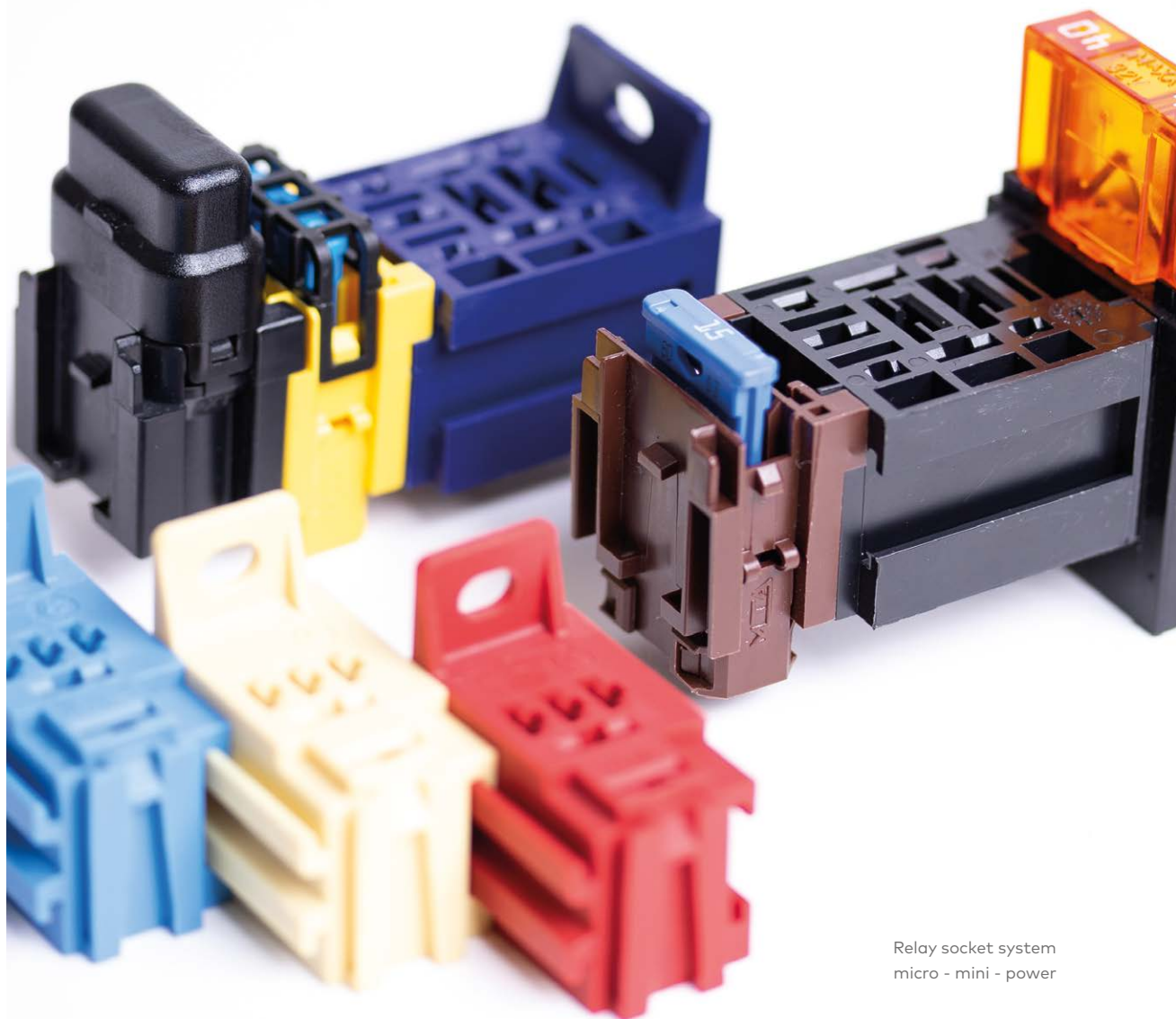
Power connector



CAN WLAN-Interface



Cable protection system



Relay socket system
micro - mini - power

CONNECTING

Single components need a connection such as plug-in connectors, junction boxes or contacts. The soldered power contacts and the processing of press-fit studs opens highly flexible manufacturing. For this purpose we add cable protection conduits and interfaces like USB – charger.

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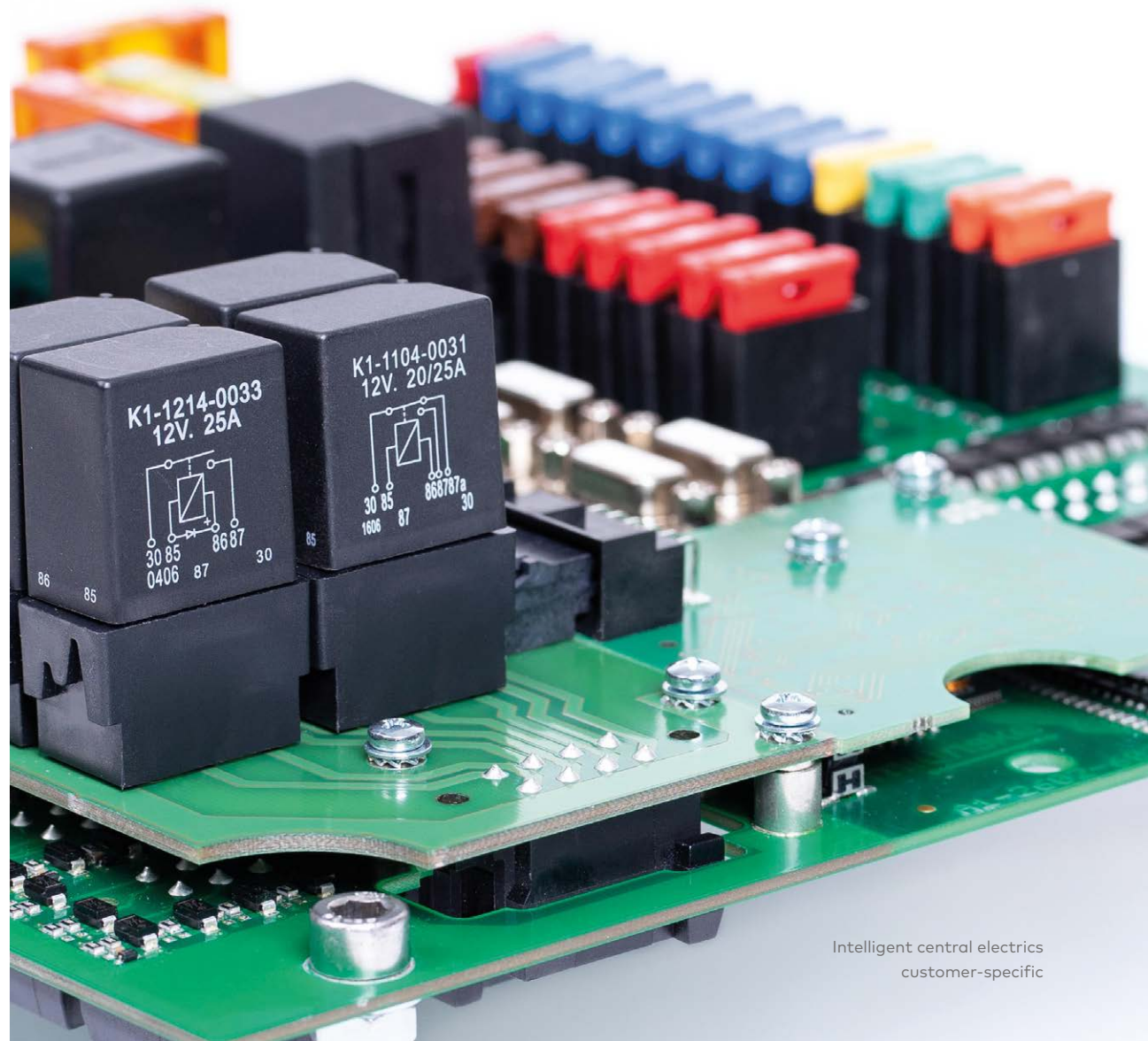
Special fuse holder



Pluggable central electric module



Universal fuse holder



Intelligent central electrics
customer-specific

CENTRAL ELECTRICS

Whether a robust power distribution unit or a modular designed smart central electrics – we offer perfect performance made to order. Our development competence of smart central electrics enables us to implement your individual requirements shortterm.

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CAN Gateway



Level sensor



CAN Communication module



Mirror and camera systems

MONITORING

Monitoring today is quite versatile. Next to camera systems there is an existing variety of components which support these functions. This includes sensors, voltage-monitoring relays or fuse-failure monitoring. Furthermore many of our electronic components provide safety relevant features such as current-monitoring of the corresponding outputs.

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Motor controle module H-Bridge



Control for a retractable landing gear



Timer and special relays



CAN Communication technology

CONTROLLING

The miunske CAN-products and electronic modules enable you to realize small but also more complex control requirements. Special relays, flasher or motor controls are just a few to mention. Whether it's a standard relay socket or including a sealed connection – our components are designed to the needs of the commercial vehicle industry.

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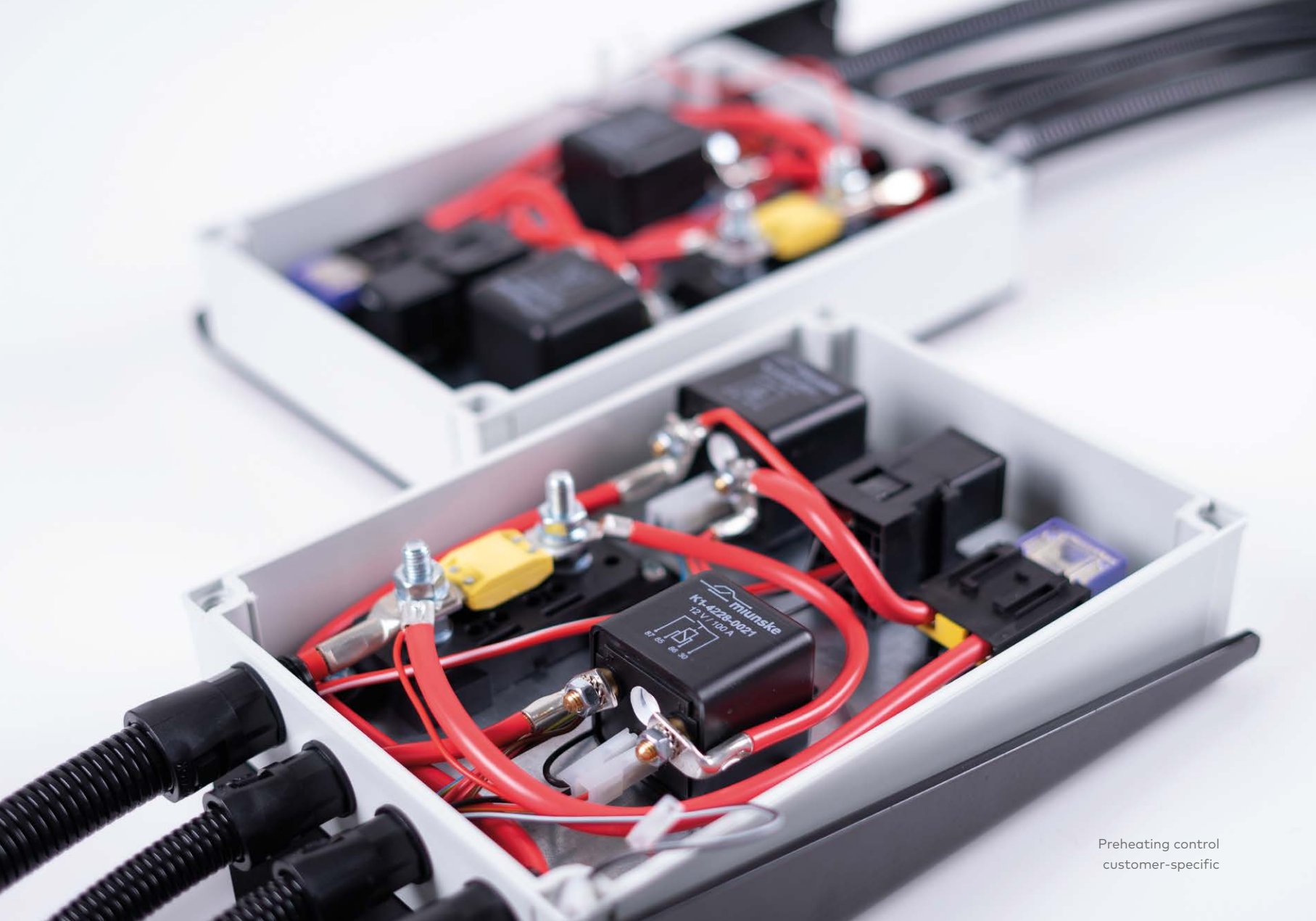


Roof bar control
via CAN control unit

SYSTEMS INTEGRATION

We understand to be your partner for integrating various components and systems like MTA cluster and Topcon panels. Our own software called miunske-toolchain is able to parametrize all miunske processor-controlled products. The programming of the CAN, LIN and WLAN communication interfaces is based on protocols like J1939, CiA447, FireCAN and CANopen.

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Preheating control
customer-specific

MODULES

Our knowledge regarding hard- and software and construction enables us developing comprehensive solutions. After testing and release procedures it will move on to the series production.

The robust pdu or our marine system are good examples.

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CERTIFICATIONS

AEO-Certificate

miunske® is also a AEO-certified (authorized economic operator) company, e.g. trustworthy and reliable towards the customs authorities. This benefits a more simple and more efficient merchandise management within the international commerce. So there are ideal conditions serving quickly our customers abroad.



ISO 9001

Quality and customer satisfaction, efficiency and responsiveness are major facts to be successful. That's why miunske® uses a quality management system according to ISO 9001.

KBA

The international ECE guideline is the foundation of our quality standards for inhouse developments. Many of our products do have a type approval by the german Kraftfahrt-Bundesamt (KBA). This means, the registration procedures for special vehicles which take part at public traffic, will be much simplified.

ISO 14001

We all take on responsibility for the future – by sustainable management and sensible use of resources. Our environmental management system acc. to ISO 14001 enables us to analyze environmental impacts and to improve fast if necessary.



miunske

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