



VEHICLE COMPONENTS FOR SAFETY-RELEVANT SYSTEMS

EMERGENCY AND RESCUE VEHICLES

FAST & READY FOR USE

WITH SAFETY

Emergency and rescue vehicles must always be ready to go. Maximum performance, focus, and situational awareness are essential. Whether in the cockpit, patient/crew compartment, or around the exterior of the vehicle—there is no time for troubleshooting during a mission. That's why miunske® offers high-performance, fail-safe components and control solutions in the following sectors:

- CONTROL & OPERATE
- MONITOR & SIGNAL
- CONNECT & PROTECT

CONTROL & OPERATE



CAN bus components are particularly well-suited for use in rescue and emergency vehicles, as they continuously monitor all connected actuators in real time and issue immediate warnings in the event of malfunctions. The pilot® series of control panels offers OEMs and specialty vehicle manufacturers maximum flexibility in function and design. The product portfolio is complemented by matching CAN I/O control modules and more.

PROVEN IN COCKPIT AND PATIENT COMPARTMENT

2nd Generation CAN-keypads with light sensor



miunske CAN keypads are available with 4, 6, or 12 switch or display fields. Their superiority becomes especially evident in extreme lighting conditions. An integrated light sensor ensures automatic adjustment of illumination intensity.

ALWAYS IN FOCUS

System integration of instruments and displays



Topcon displays cover a wide range of options and functions. As an experienced distribution partner and system integrator, we configure and program these according to your requirements and integrate them into different systems.

TOUGH ON THE OUTSIDE, BRILLIANT ON THE INSIDE

pilot Control panels, buttons &
displays - smartly combined



configured online-
get directly to the
offer

Use our pilot® Online Configu-
rator as a development tool to
communicate with your custo-
mers and to submit a request
tailored to your needs.

Whether used as a display unit, control device for add-on/auxiliary equipment, or in combination with roof light bars—numerous design and functionality variants support a wide range of application options. The pilot control panel series features haptically reinforced buttons for quick and precise operation. Some models also include XL buttons for particularly high-priority functions. Additional displays in OLED or TFT technology facilitate the perception of vehicle-relevant information.

EVEN MORE FLEXIBILITY WHILE MAINTAINING THE HIGHEST QUALITY STANDARDS

Do it yourself



To allow maximum flexibility and customization, miunske offers vehicle manufacturers and converters the option to finalize control units themselves. In addition to the know-how provided via assembly instructions, all that is required is a laser device and a clean work area. What's special about this is that the control units retain their usual high-quality appearance and are indistinguishable from standard parts.



Removing the transport foil



Applying the customized operating foil

VEHICLE UPGRADES WITH LESS WIRING

Networking with CAN Modules



CIA 447

Emergency & rescue vehicles / roof frames & signal lights



FIRE CAN

Fire engine/ roof frames & signal lights/ ladders



J 1939

Trucks/systems on vehicle chassis



CANOPEN

Construction vehicles / hydraulics, pneumatics, automation



Training and Support

miunske® pursues a strategy of solution-oriented use of CAN products. For this reason, our CAN input/output modules can be integrated into existing CAN networks or designed as standalone CAN system. To get started with CAN and parameterize our products, we offer in-house training courses with practical use cases.



1 MILLION POSSIBILITIES WITH THE MFR

Maximum flexibility thanks to fast configuration



The multifunctional relay is an intelligent mini-controller in the form of a relay equipped with a controller. It combines two inputs with different signal types via six logic functions, thus enabling a significantly wider range of functions than conventional relays.



MFR programming kit with Evalboard



DOOROPENER THANKS TO SMART LOGIC

teachable engine
control



Integration of suitable motor controls to assist the closing of side doors, for seat adjustment of integrated seats, or to control the extension and retraction of running boards.

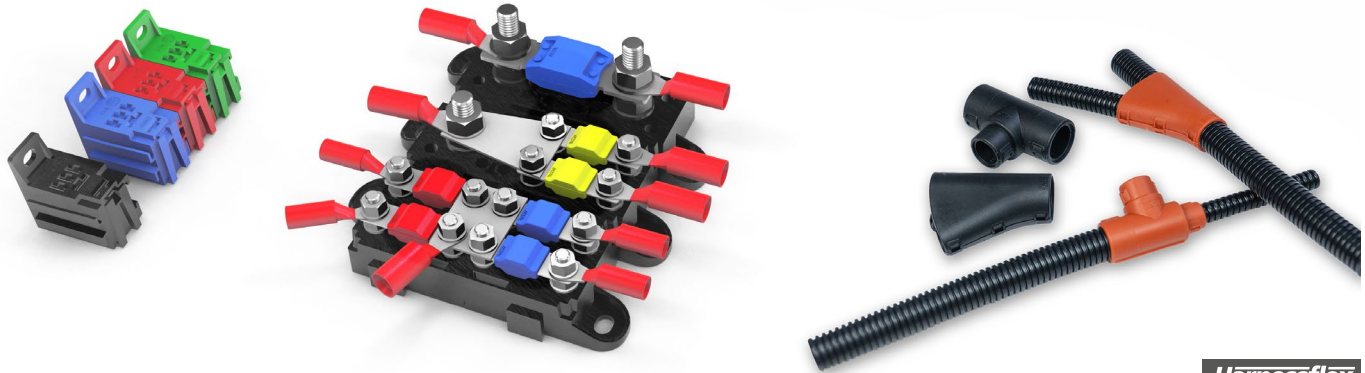


CONNECT & PROTECT

Especially in emergency vehicles, devices must be integrated into the tightest of spaces. Space and installation optimization are key here. Central Power Distribution Units (PDUs) from miunske® ensure efficient power and function management in the tightest spaces while reducing wiring complexity. We also supply complementary components such as fuses, relays, and connector plugs for your specific application.

SMART BASIC PRODUCTS FOR VEHICLE ELECTRICS

Socket & Holder Systems, Cable protection



Functionality, mounting security, and durability are all critical factors in the construction of special-purpose vehicles. For example, color-coded sockets and plugs help prevent installation errors. Our universal fuse holder provides flexibility, and ABB-Harnessflex cable protection components ensure the long-lasting, secure performance of the vehicle's electrical system.

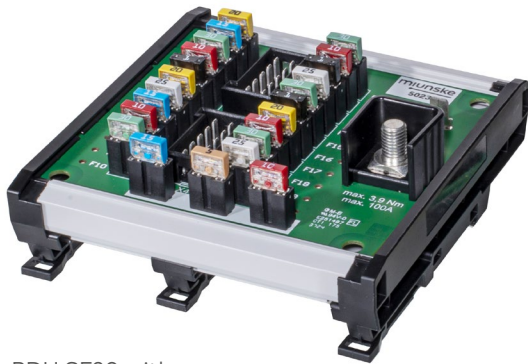


QUICKLY AVAILABLE AND EASY TO CONFIGURE

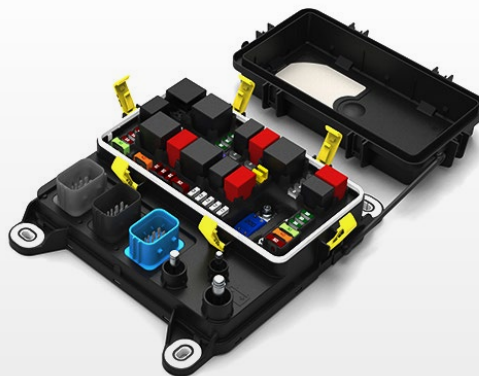
Standard solutions for decentralized Power Distribution

Smart & flexible with the m.PDU SF-20

The m.PDU SF20 power distribution board is available in four configurations—with front or rear connections and with or without fuse failure indicators. This PDU can be installed freely in the vehicle or housed in a standard enclosure. miunske also offers a matching adapter for DIN rail mounting.



m.PDU SF20 with
DIN Rail Adapter



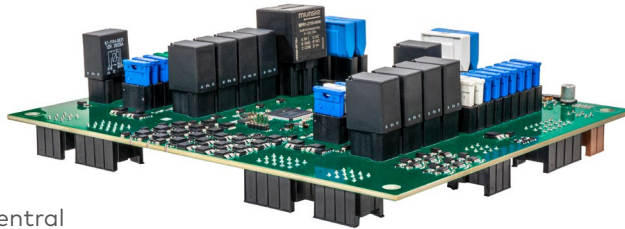
Maximum versatility and reliability

MTA's power distribution units are designed for high-performance power distribution and protection of the most important electrical systems. They feature a modular design for maximum flexibility. As a system partner, we offer expert advice on the full product portfolio and assemble components in accordance with your requirements.

CUSTOMIZED ENERGY DISTRIBUTION

Intelligent Central Electrics

Energy management thoughtfully tailored. Intelligent central electrical boards enable targeted distribution and switching of various consumers and power circuits. They also facilitate easy diagnostics of any errors. With our various assembly technologies - THT, SMT, and press-fit (PFT) - we offer the optimal manufacturing mix for your customized central electrical unit. By using our color-coded press-fit elements, we lay the foundation for error-free wiring assembly in the vehicle.



Robust Power Distributors

Robust design in a minimal space - that was the requirement profile for this power distributor, which is used in an ambulance..



Development Services for your project

Together, we analyze your initial project needs and define the specific development goal. Our experts from all relevant departments then work together in an interdisciplinary manner—hardware and software engineers, designers, production engineers, and quality assurance professionals. Together we find the optimal solution for your requirements and implement it from prototype to series production.





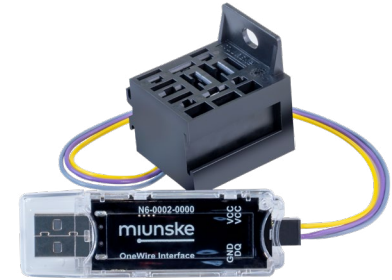
MONITOR & SIGNAL

Classic and AI-supported safety solutions offer maximum protection for drivers, occupants, and external persons. Perceiving and being perceived - whether visually or acoustically - is extremely important, especially in an emergency. With the right combination of mirror and camera systems, suitable lighting and signaling systems, as well as signal devices and multi-sound modules, early detection and recognition of the vehicle is ensured.

MORE SOUND VARIETY IN THE COCKPIT

Muti-Sound Module with voice messages

The Multi-Sound Module allows you to play acoustic signals - and even voice messages - inside the vehicle cabin. Even in loud work environments, it ensures that a wide variety of alerts can still be heard clearly and unambiguously. This significantly increases safety and supports compliance with legal regulations.



PARAMETERIZABLE FLASHER UNIT

ISO-Pulse Flasher Unit multivoltage

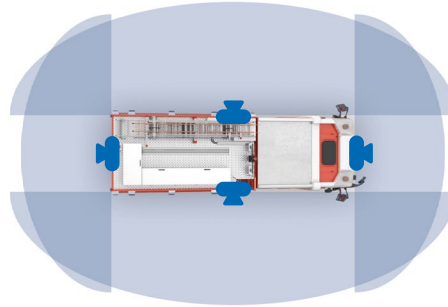
Selecting the right flasher unit can be time-consuming. Considering the lights in the vehicle, different on-board voltages, and a wide range of temperature costs valuable time when searching for the right component. This is precisely where our ISO pulse flasher unit comes in, offering an effective and safe implementation for the operation of incandescent lamps and ISO LED indicators in any combination.

SEEING AND BEEING SEEN

Mirror and Camera Systems, suitable lighting



Brigade



High-Resolution Backeye®360 System with AI

All vehicles have blind spots—areas close to the vehicle that the driver cannot see due to chassis or attached equipment. These blind spots are especially dangerous in high-stress situations, as they significantly increase risk in traffic. That's why our portfolio includes products from Brigade. As a system partner, we advise you and integrate camera, recording, and detection systems into your vehicle.



LUMINAIRES AND WORK LIGHTS

Special-purpose vehicles often require additional lighting solutions. Whether it's lighting for a step, cabin, or a work light for better visibility outside the vehicle - we offer a broad portfolio of lights and lighting products from various manufacturers.

Your partner for System Integration

Our goal is to find the right solution for every requirement. With our mix of commercial and in-house developed products, you have a broad portfolio at your disposal, which we configure into a complete system tailored to your specific needs. We are an integration partner of MTA & TOPCON and a member of CiA.



Brigade



miunske Gruppe

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