TWO ONBOARD VOLTAGES - ONE SYSTEM

CAN I/O MODULE 2G5-48

12, 24 & 48 V

MORE FLEXIBILITY IN COMPONENT SELECTION

- HIGHER VOLTAGES
- MORE POWER & MORE PERFORMANCE
- ADAPTION FOR FUSE HOLDERS & RELAY SOCKETS

ELECTRONICS FOR COMMERCIAL & SPECIAL VEHICLES

CAN I/O-MODULE 2G5-48

Highest flexibility through fast configuration

No matter which on-board voltage levels are to be combined in one system, the 2G5-48 offers the solution. With this I/O-module, you can continue to use the cheaper and readily available 12 V/24 V components in your commercial vehicles without having to forego the advantages of 48 V technology.

Our CAN I/O-module 2G5-48 is ideal for **integration in superstructures and mobile machines that require a lot of power/performance**, such as lift trucks, compressors and cable winches. It is also well suited for use in **autonomously driving transport and logistics vehicles**, such as forklift trucks and buses.

PRODUCT BENEFITS

- simplifies the installation of a **2nd on-board voltage level** in the vehicle
- compatible with all **12 V, 24 V and 48 V vehicle electrical systems (voltages from 9 to 60 V)**
- **more options for component selection:** it is possible to use components with other nominal voltages in the 48 V on-board network or 48 V components in the 12 V/24 V on-board network
- functions in different on-board voltage circuits (12 V/24 V and 48 V) can be controlled from one control panel for example
- **more power/performance** due to higher voltages with the same cable cross-section, total current up to approx. 700 watts
- **12 inputs and 12 outputs:** more power and application possibilities
- compact design enables **minimisation of installation space**
- **robust hardware:** waterproof and dustproof versions

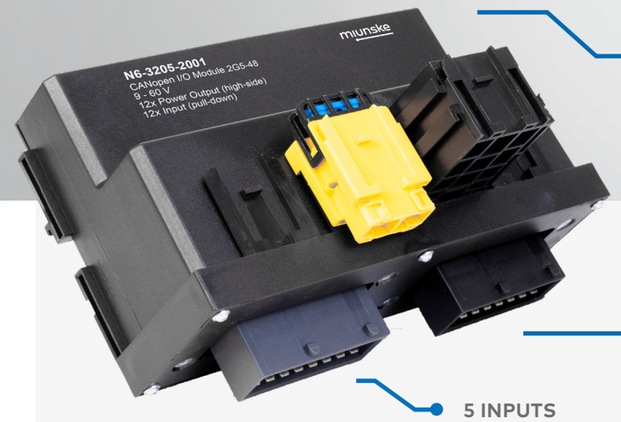
CiA 301 STANDARD

TECHNICAL DATA

miunske PLUS POINTS

CAN I/O-module 48 V

The specialist for 2 on-board voltages



You need a modified hardware version? Get in touch with us!

HOUSING/MOUNTING

- 4 x mounting bracket
- DIN rail mounting
- IP54, sealed version on request
- plugable fuse holder and relay socket

5 INPUTS

configurable as pull-up or pull-down

CAN INTERFACE

ISO 11898 and CANopen

6 HIGH-SIDE OUTPUTS

with overload- and overtemperature protection

- 2 x 2.5 A output, current monitored with 0.1 A resolution, PWM with variable frequency
- 1 x 5 A output, current monitored with 0.1 A resolution, PWM with 1 kHz
- 3 x 5 A output

7 INPUTS

configurable as pull-up or pull-down

6 HIGH-SIDE OUTPUTS

with overload- and overtemperature protection

- 2 x 2.5 A output, current monitored with 0.1 A resolution, PWM with 1 kHz
- 1 x 5 A output, current monitored with 0.1 A resolution, PWM with 1 kHz
- 3 x 5 A output

SOFTWARE INDIVIDUALISATION

You can easily adapt the functions of the CAN I/O-module 2G5-48 to your individual needs.

The following options are available:

CANopen analytics user interface from miunske®	parameterisation interface FlexGUI of miunske-toolchain	API programming
• define timings • define parameters to control objects	• define timings • set parameters to control objects • parameterise inputs and outputs • CAN communication applications toolchain by miunske	You can write your own programme within the firmware via C programming. For this you need the „Cosmic Compiler“.

We are happy to take on software customisation according to your requirements profile.

VALIDATION OF 48 V COMPONENTS IN OUR OWN HIGH-CURRENT LABORATORY

Extensive tests and trials are required to ensure that electronic components with safety-relevant functions work perfectly in the worst case scenario. The validation of 48 V components takes place in our own high-current laboratory, which makes it possible to test the hardware for the corresponding power range. Developers simulate the worst-case scenario and very specific disturbance events in low-voltage networks in order to test electronic components for their safety and limit loads. The test specimens are tested under thermal load and stressed in terms of load-bearing capacity with regard to the rated current and the short-circuit current. With the available equipment, in-house testing with direct current is possible. Electrical loads of up to 20 kW can be simulated.

miunske® PLUS POINTS

- FIXED CONTACT PERSON
- JUST IN TIME ENGINEERING
- IN-HOUSE DEVELOPMENT SERVICE
- STORAGE & ORDER PICKING
- DELIVERY RELIABILITY & FAST AVAILABILITY
- COMPREHENSIVE TECHNICAL SUPPORT
- TRAINING CENTER

miunske GmbH

+49 35938 9800-0 • info@miunske.com

Oberlausitzer Strasse 28 • D-02692 Grosspostwitz

www.miunske.com

miunske

version 1/2021