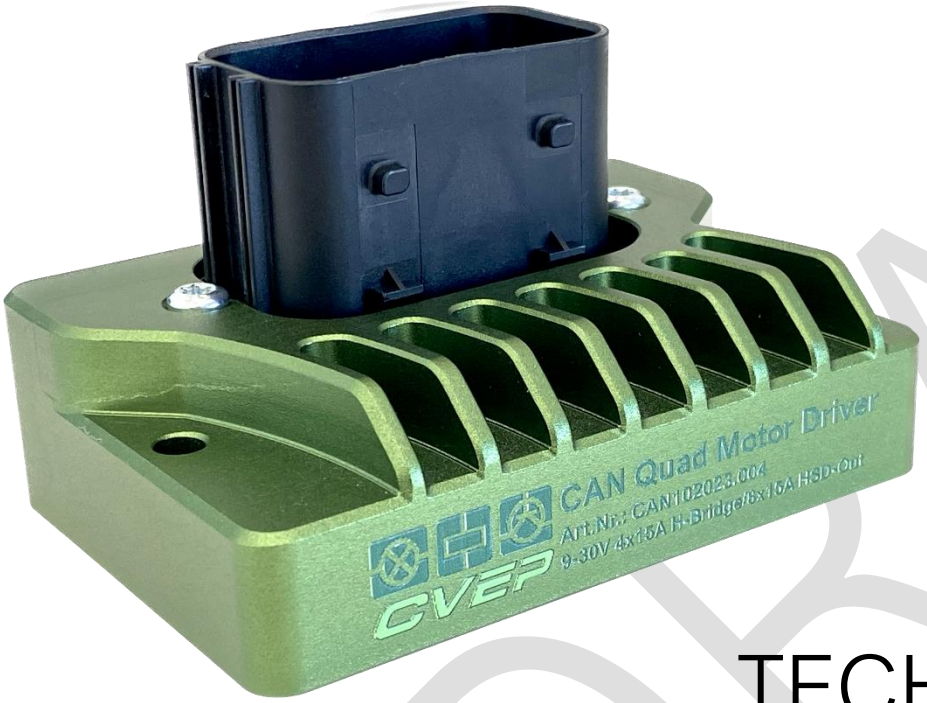
CAN102023.004

CAN Motorcontroller



DRAFT

TECHNICAL DATASHEET

Short Facts

Size	95x65x54mm	Operating Voltage	9-30V
Protection rate	IP68	Operating Temperature	-40 to + 80°C
HB Output	15A/each 80A max.	Weight	300g
Analog input	4x 0-10V	Interfaces	1x CAN

Content

Short Facts.....1
Specifications.....2
Description.....2
Block Diagram.....3
Characteristics.....4
Pinout.....4
Programming.....5
Dimensions.....5

v1

Specifications

Size	95x65x54mm	Protection rate	IP68
Supply Voltage	9-30V	Operating Temprature	-40 to + 80°C
Weight	300g	Half-Bridge Outputs	8x up to 15A each
Analog inputs	4x 0-10V	Interfaces	1x CAN up to 1 Mbit/s
Mounting	2 Hole Flange	Maximum Current	80A
Programming Language	C	Program Memory size	32KB
Housing Material	Aluminium 6061	Color	CVEP green*
Connector	TE 1534238-1	Connector counter Part	TE 1-1534127-1
Potting material	Robnor EL 199	EMC	95/54 EG & DIN 40839
Current feedback	yes	Output use with PWM	yes

*ask for different color options

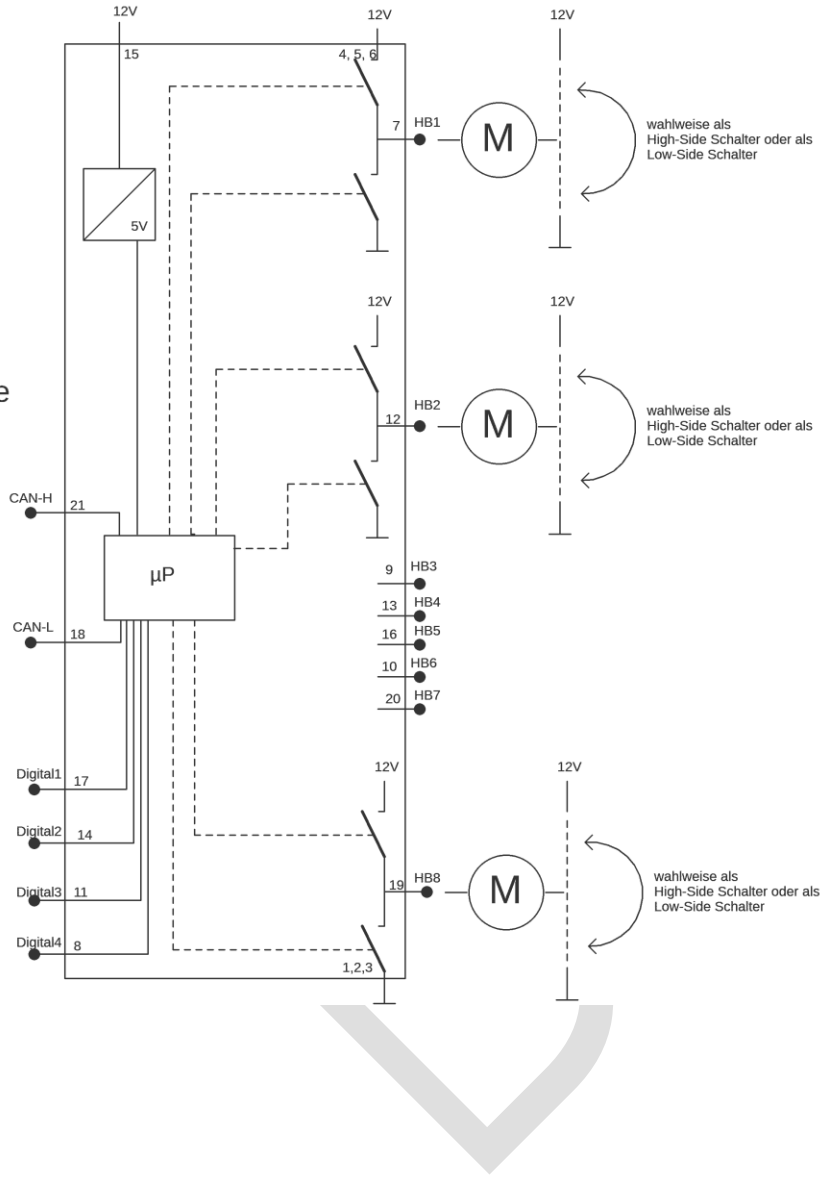
Description

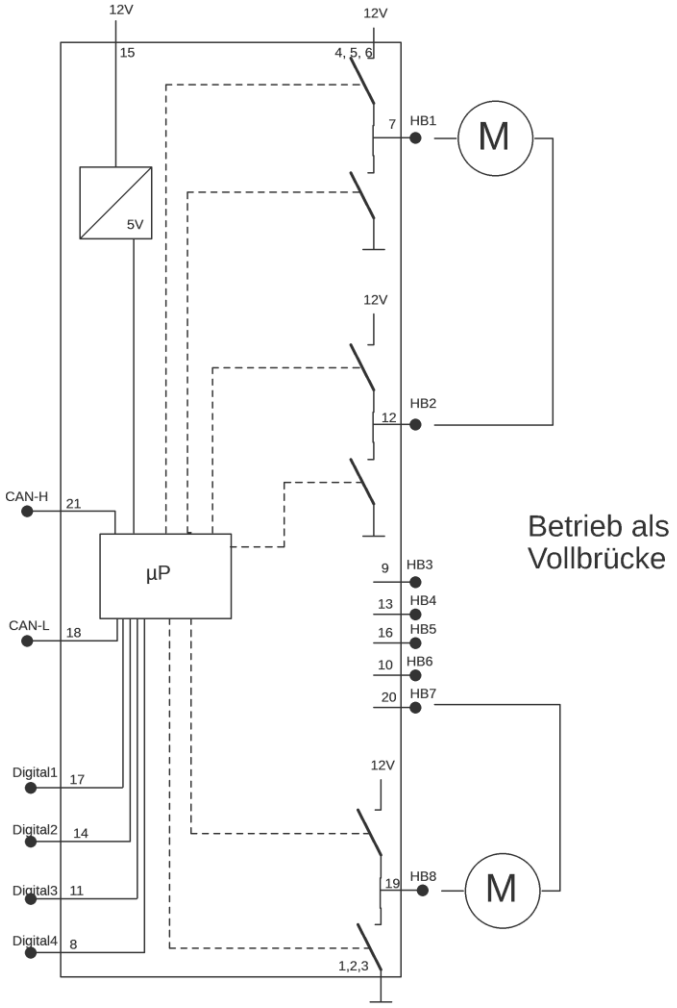
The CAN102023 is a CAN controlled IO System with 8 Half-Bridges to control DC-Motors or other loads. It is also possible to use two Half-Bridges together to control a DC Motor in both directions. Additionally the device have four independent analog inputs. It is possible to program it by customer. So it is also possible to use the device independently without CAN.

DRAFT

Block Diagram

Betrieb als Halbbrücke





Betrieb als Vollbrücke

Characteristics

Communication

CAN 2.0B Support. 11Bit and 29Bit IDs are possible. Data transmission rate up to 1Mbit/s.

Inputs and Outputs

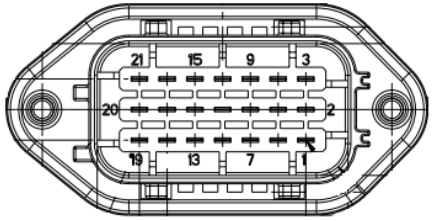
The CAN102023.004 have four analog inputs with a range from 0-10V at 12bit resolution. The 8 Half-Brides Outpus have a current feedback, are PWM capable and always two together can use as one Full-Bridge to control DC-Motors in both directions. Each Output is capable to sink and source up to 15A continuously. The overall current is 80A.

Mating Connector

TE 1-1534127-1

Pinout

PIN	Function	PIN	Function	PIN	Function
1,2,3	+12-24V Outputs	11	DI3	17	DI1
4,5,6	GND	12	HB2	18	CAN-L
7	HB1	13	HB4	19	HB8
8	DI4	14	DI2	20	HB7
9	HB3	15	+12-24V Logic	21	CAN-H
10	HB6	16	HB5		



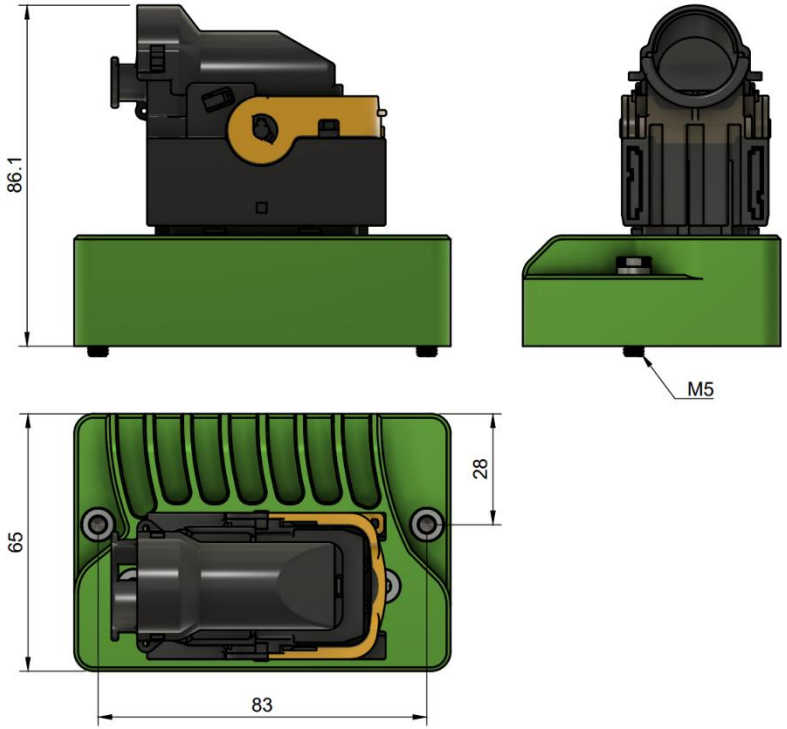
DRAFT

Programming

To program the CAN102023.004 it is recommended to use the toolchain from Microchip for the PIC18 (MPLAB-X and XC8).

The CAN102023.004 comes with a CAN bootloader from CVEP. It is possible to flash the program to the Microcontroller with our CVEP flash tool. The download process is based on CANopen. Ask CVEP for sample project and the QuickStart manual.

Dimensions



All values in mm.

Ask CVEP for 3D-Model.

CVEP GmbH

Gewerbegebiet Ost 35

92353 Postbauer-Heng

www.cvep.de

DRAFT

Disclaimer

Products, drawings, information, specifications and reference numbers (hereafter “contents”) discussed herein are for reference purposes only. All contents herein are provided on an “as is” basis, without warranties of any kind. The Content remains the sole and exclusive property of CVEP and may not be translated or copied in whole or in part without CVEP's prior written consent.

No license to any patent, copyright, trademark or other intellectual property right is granted by implication, estoppel or otherwise in this document. Contents may be changed or modified by CVEP without any notice. For updates or additional information about CVEP products, please contact us. All brand names, registered trademarks and trademarks belong to their respective owners.