Work Discription for

Article No.: CAN102019.0xx

Description:

To get the IO-Module work, you dont need a specific software, you can use every CAN-to-PC tool you like. For example the Peak CAN-USB or similar. You can configure the modul with some simple CAN messages.

At first the Modul needs every 100ms a "Unlock" message to enter the configuration mode. this is:
ID: 0x04B DATA: 0x01 0x02 0x03 0x04 0x05 0x06 0x07 0x08
You should not send this message in normal operation, only to configure the modul.

Then there are two configuration Messages.
- To set the send and receive ID´s you have to send a message with the ID 0x1BB, The first four bytes are the receice ID and the last four bytes are the send ID.
The second config message is ID 0x2BB
with the fist byte (byte 0) you can set the Frame Format (std = 0 or extendet = 1)
The second byte (byte 1) is to set the baudrate. 0 = 125 kBit, 1 = 250kBit.
The third byte (byte 2) is to set the heartbeat of the modul in 10ms steps.
The fourth byte (byte 3) is to set the Pullups (the lower four bits) 1 = pullup enable, 0 = pullup disable.
The fifth byte (byte 4) is to set a thresholt for the analog inputs (the modul sends a message immediately if an analog value changed more than the threshold flom the last sendet value)

If the modul received both config messages during it is in config mode it saves the new configuration and makes an restart.

To switch on or off the Outputs or the LEDs you just have to send a message with the saved receive ID and byte 0:
first bit = OUT1
second bit = OUT2
third bit = OUT3
fourth bit = OUT4
fifth bit = LED1
sixt bit = LED2

The message which you receive from the modul are the analog values of the four IOs.
byte 0-1 = IO1
byte 2-3 = IO2
byte 4-5 = IO3
byte 6-7 = IO4