4.2.5 CAN-Bus Baudrate

The default setting of CANopen devices, which were not delivered with pre-configured settings, is 125 kBit/s. The baudrate setting can be modified by a special procedure using the two CAN-ID HEX switches on the bottom of the device.

Procedure for setting the CAN baudrate

	What to do	Indicator / Remarks
1	Switch CANopen device off.	
2	Set the CAN-ID switches to 00.	
3	Switch CANopen device on.	The green LED blinks in a 500 ms cycle
4	Set the CAN-ID switches to a value of F0 (Hex) within the next 10 seconds, i.e. turn the hex-switch 'High' to F. The direction of rotation of the switch is not important.	The green LED blinks in a 200 ms cycle
5	Turn the hex-switch 'Low' to the value representing the desired baudrate within the next 10 seconds. Please see the table below to evaluate which 'Low' value represents which baudrate setting.	The CANopen device confirms the baudrate setting ot indicates an wrong setting: If the setting is o.k., the yellow LED blinks several times after the configuration time of 10 seconds. Afterwards the green and yellow LEDs blink in a 100 ms cycle. An invalid baudrate value configuration is indicated by fast blinking of the red and green LED.
6	It is possible to adjust the correct CAN-ID address again while the green and yellow LEDs blink. It is also possible to wait until blinking is finished, switch the device off afterwards and adjust the correct CAN-ID in switched-off state.	**IMPORTANT:** The CANopen device has to be switched off and on again to adopt the new setting. But: Do not switch off the device while the green and yellow LEDs blink !

Assignment of the CAN baudrate setting to the value of the hew-switch 'Low' during CAN baudrate configuration as described above (see item 5):

'Low' switch	0	1	2	3	4	5	6	7	8
Baudrate [kBit/s]	1000	-	500	250	125	100	50	20	10

Resetting the baudrate to the default value

The default baudrate (125 kBit/s) can be configured easily by the following procedure:

	What to do	Indicator / Remarks
1	Switch CANopen device off.	
2	Set the CAN-ID switches to 00.	
3	Switch CANopen device on.	The green LED blinks in a 500 ms cycle
4	The baudrate is set to 125 kBit/s automatically without further action.	The yellow LED blinks four times after a delay of 10 seconds. Afterwards the green and yellow LEDs blink in a 100 ms cycle.
5	It is possible to adjust the correct CAN-ID address again while the green and yellow LEDsblink. It is also possible to wait until blinking is finished, switch the device off afterwards and adjust the correct CAN-ID in switched-off state.	**IMPORTANT:** The CANopen device has to be switched off and on again to adopt the new setting. But: Do not switch off the device while the green and yellow LEDs blink !

Remark:
It is possible, that any setting of the baudrate by the CAN-ID switches is blocked due to a customized pre-configuration or special device version.