

Automotive Technology

Automotive E/E Systems Laboratory



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Experiment 2

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Date	15 JUNE 2020

2.3 CANoe configuration

a) How many messages are visible in the Trace window?

2 CAN messages with various information such as time (cyclic time receive and sent), channel number, ID, Event type, Direction, Data length code (DLC), data (user data)

b) What are their identifiers?

100 and 200

c) What is the DLC you can see in the messages?

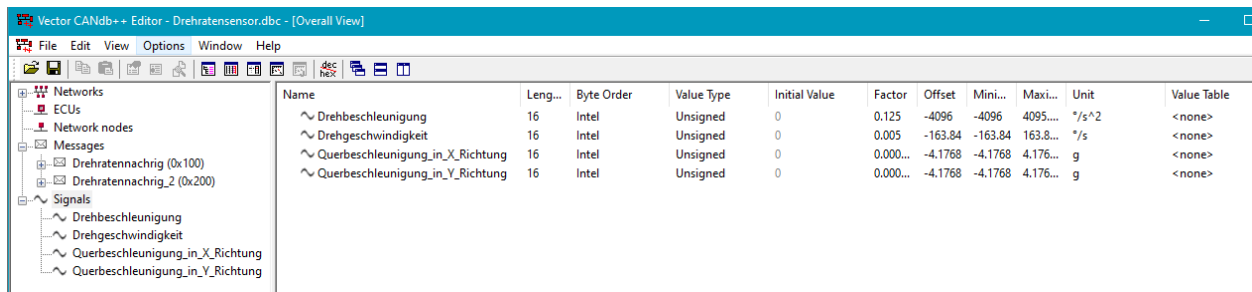
The data length code is valued at 8 (bytes)

d) What is the cyclic time (Δt) the messages are send with?

About 0.01 ms for both messages

Time	Chn	ID	Name	Event Type	Dir	DLC	Data
0.010034	CAN 1	100		CAN Frame	Rx	8	F7 7F 00 FF A4 7F 00 5C
0.010038	CAN 1	200		CAN Frame	Rx	8	00 80 00 00 86 7F 00 E7

2.4 Database

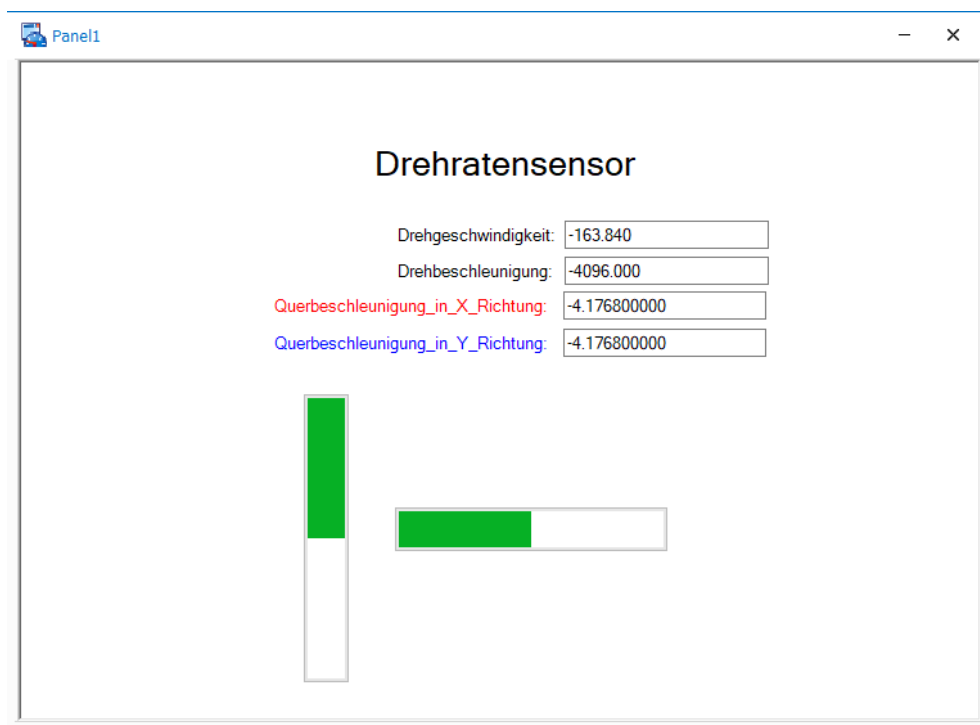


Name	Length	Byte Order	Value Type	Initial Value	Factor	Offset	Mini...	Maxi...	Unit	Value Table
~ Drehbeschleunigung	16	Intel	Unsigned	0	0.125	-4096	-4096	4095...	*/s^2	<none>
~ Drehgeschwindigkeit	16	Intel	Unsigned	0	0.005	-163.84	-163.84	163.8...	*/s	<none>
~ Querbeschleunigung_in_X_Richtung	16	Intel	Unsigned	0	0.000...	-4.1768	-4.1768	4.176...	g	<none>
~ Querbeschleunigung_in_Y_Richtung	16	Intel	Unsigned	0	0.000...	-4.1768	-4.1768	4.176...	g	<none>

e) What is different when looking at the message in the Trace window now?

The signal part was filled by 4 selected files that has been provided. The value of factor, offset, length of bit also has been filled in by using data value provided.

2.4.1 CANoe panel



Drehratensensor

Drehgeschwindigkeit:

Drehbeschleunigung:

Querbeschleunigung_in_X_Richtung:

Querbeschleunigung_in_Y_Richtung:

Visual representation of signal levels using green bars:

- A vertical green bar on the left, representing a high signal level.
- A horizontal green bar on the right, representing a medium signal level.

2.5.1 Activating the instrument cluster

a) What can you observe in the trace window (in the video)? Are there any messages that are sent from the instrument cluster?

The warning symbols alert the driver that an important function is activated, or that a serious error or a serious failure has occurred.

b) Do you need a terminating resistor for the instrument cluster? If yes, why?

Yes, terminating resistors are important to eliminate reflective signal in the instrument cluster

