BMW HVAC Lin Flap drives

By Tom de Bree 26-03-2024

Volt Influx Ltd

Motor Requests

MotorID: 1-16 dec

Lin request:

ID: MotorID 0x001 – 0x00F

Response Length 2

Checksum: Classic

Byte 0 – Position LSB

Byte 1 – Position MSB

Starting

!!! Assuming ID assigned motors!!!

Start up, and start to send LIN

On 12V power on motor does not know where it is, reported position is: 0xBF 0xFE

LIN requests needs to be received within XX ms of 12V power.

Lin Commands

Assign position to motor:

Motor will not move but assume it is in this position also enables motor

ID: 0x02C

Length: 4

Checksum: Classic

Byte 0 – 0x20|MotorID

Byte 1 – Position LSB

Byte 2 – Position MSB

Byte 3 – 0xFF

Unlock motor:

ID: 0x02E

Length: 4

Checksum: Classic

Byte 0 – 0x20|MotorID

Byte 1 – 0xFC

Byte 2 – 0xFF

Byte 3 – 0xFF

Lock motor:

ID: 0x02E

Length: 4

Checksum: Classic

Byte 0 – 0x20|MotorID

Byte 1 – 0xFE

Byte 2 – 0xFF

Byte 3 – 0xFF

Move to Postion motor:

ID: 0x02F

Length: 4

Checksum: Classic

Byte 0 – 0x20|MotorID

Byte 1 – Position LSB

Byte 2 – Position MSB

Byte 3 – 0x05 ??? speed?