

Car Motion – Connect to CS2/3 – or other Digital Central

Jens Krogsgaard – 7-11-2023

The new Viessmann Car Motion cars have a built-in IR (infrared) reader in the front bumper. It is therefore possible to send DCC commands to the car from a digital central and in this way regulate the speed and activate the function keys F0 to F8 on the car.

To make this work, do the following:

1. Download CarManager program

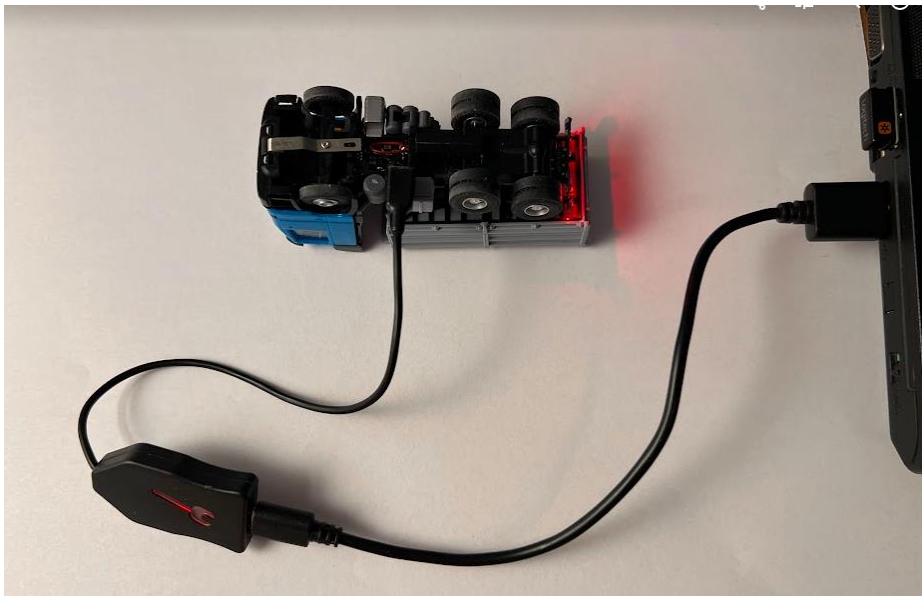
Download and install the program from this link:

<https://viessmann-modell.com/en/carmotion/software-firmware/>

2. Give the car a DCC adress

Connect the car to your PC/mac – use this wire

<https://viessmann-modell.com/en/product-range/gauge-h0/carmotion/2782/programming-device>





USB adapter connected

Product Viessmann CarMotion (8010)

Firmware 1.08

General settings

Service

Backup

Update decoder

Info

General info

Lights

Speed

▼ Infrared

▼ Adaptive cruise control

Finetuning

Traffic lanes

▼ **DCC**

Function mapping

Compatibility mode

Remote control

▼ Start and Stop

Behaviour during long stop

Execute command after departure

Behaviour on low battery

▼ Magnetic control

North: Stop

South: Smooth braking

Magnetic sequences

Macros

Direct configuration

Infrared / DCC

Allows the vehicle to be controlled by external road

The detection depends on the polarity of the signal emitter.

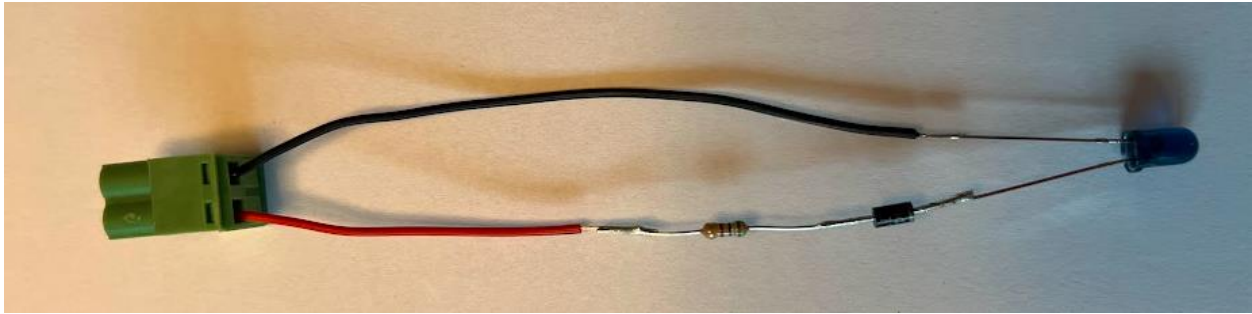
Receiver enabled

DCC address

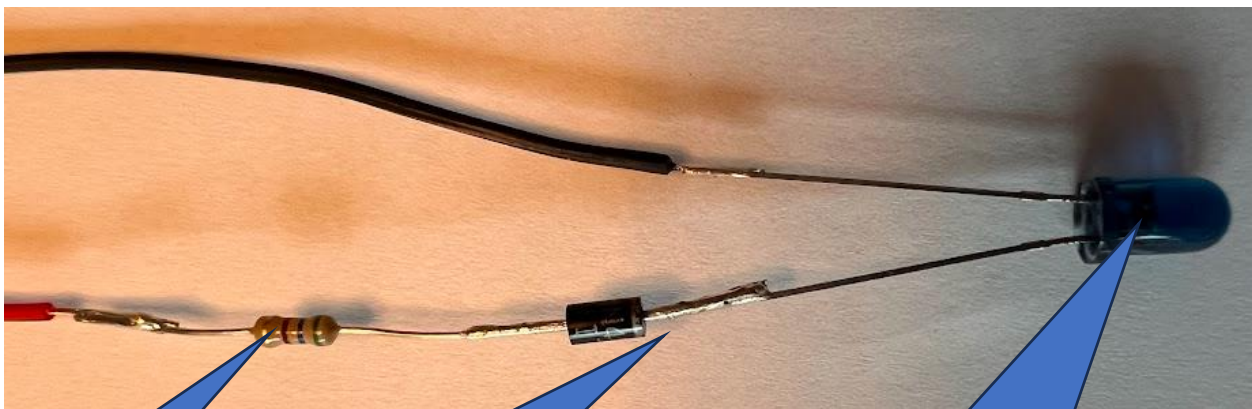
Speed step 28 km/h

Give the car a DCC address – e.g. address DCC 30 - but all others can of course also be used.

3. Connect IR-LED



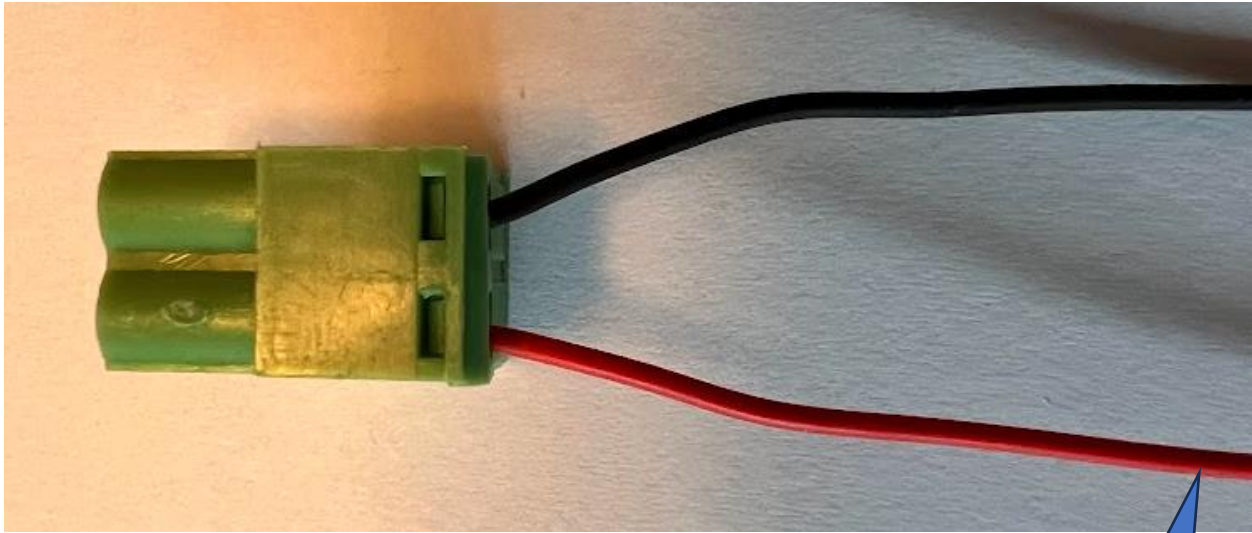
| Component | Description | Link |
|--------------|-------------------------------|---|
| 5 mm-IR-LED | 940nm, 30mW (20 degree) | https://www.elextra.dk/p/5mm-ir-led-rund-transparent-bl%C3%A5-940nm-30mw-20/H14656 |
| Diode | 1N400x | https://www.elextra.dk/komponenter/dioder-og-brokoblinger/dioder/1n4004-ensretterdiode-400v-1a-do41/H13958 |
| Resistor | 330 ohm | 220 – 1 K Ohm can be used. I have tested 330 Ohm |
| Reed-contact | 10W (0,5A) Ø2,2x14mm | https://www.elextra.dk/p/reed-sensorkontakt-1-x-slutte-10w-05a-%C3%B822x14mm/H32620 |



Resistor

Diode – 'the ring' should point to the IR LED

5 mm IR Led –long leg + connect to diode and resistor



Turn the plug to the control unit correctly – for a CS2/CS3 it must be turned as shown.

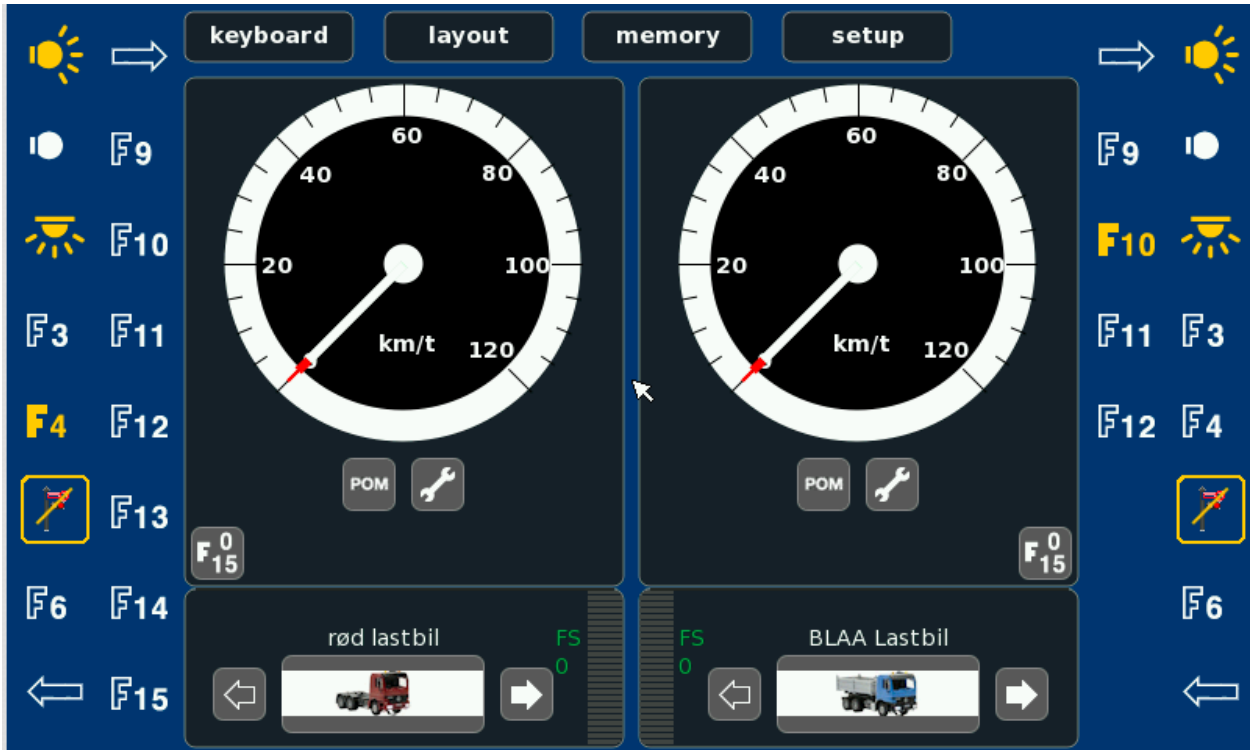
If it does NOT work - try changing the wires

+ to resistor and diode

4. Add the car to your Digital Central

Create the car on your Central in the same way as you create a DCC locomotive.

Enter the DCC address and use 28 driving steps.



Then we are ready to test whether it works 😊