

6. How to connect into a Vehicle

6.1 Connecting the Trailer Data System Interface

The device with the 4-pole FMS connector can be connected to the CANbus.
Devices with the SFD connector can be connected to a SFD port on a CANcore device,
a flying lead device must be connected to Power (Brown), Ground (Black) ,
CAN_L (White), CAN_H (Blue) CANbus wires.

The sense wire (Yellow) must be connected to the brake light wire.

Warning: there are wires that shows the same brake line signal but contain no Trailer Data messages.

Brand	Installation location
DAF	To install in a DAF CF/XF use wire number 4601 in the fusebox: Brake relays output
Iveco	Iveco Eurocargo and Stralis use wire number 1175, in fusebox
MAN	TG/F/L/M 2000 use wire 43312 on connector X1541 pin 1
Mercedes	On request
Renault	Wire Number 3 on bulkhead Connector XJR13 Pin7 or XJR11 pin 4 (interconnected)
Scania	Bulkhead C100 connector, Pin 30
Volvo	Module A27 light controller in central dashboard, Connector PC , Pin7, wire color Red striped Brown

The electrical Spiral cable between truck and trailer have two types of connectors:

24N (ISO 1185) connector: pin 4 (red): Stop Lamps

Pin	Wire Colour	Function
1	White	Ground
2	Black	L/H side lights
3	Yellow	L/H indicators
4	⇒ Red	Stop lamps
5	Green	R/H indicator
6	Brown	R/H side lights
7	Blue	Spare / TRL control

Or 15 Pole connector: pin 7

Pin	Wire Colour	Function
1	yellow	Left-hand direction indicator light
2	green	Right-hand direction indicator light
3	blue	Rear fog light
4	white	Common return
5	black	Left-hand rear position and marker lights, rear-registration-plate illumination device 1)
6	brown	Right-hand rear position and marker lights, rear-registration-plate illumination device 1)
7	⇒ red	Stop lights
8	pink	Reversing light
9	orange	Power supply (+24V)
10	grey	Worn brake lining sensor
11	white/black	Pressure sensor for spring brake
12	white/blue	Axle lifting device
13	white/red	Common return for data lines
14	white/green	CANH
15	white/brown	CANL

6.2 Connecting the Trailer-ID module

A trailer-ID module is mounted inside the left brake light housing.

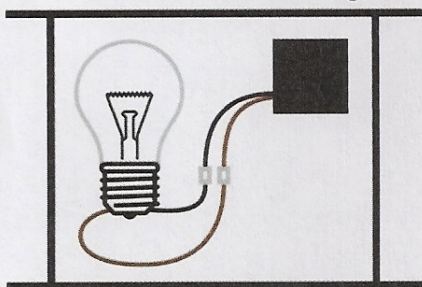
The module is supplied with two wires with male+female AMP connectors.

Connect the male+female connectors parallel to the lamp.

The ground wire is Black, the brake light wire is Brown.

Move the module at the back of the lamp housing away from the heat and the light of the light bulb, position the wires also away from the light bulb and avoid melting of these wires.

Connect to left brake light



3. The Trailer Data Transceiver

The Trailer Data Transceiver is a small device mounted in the truck close to a CANbus. This interface can send and receive data to and from the trailer over the brake light wire. A Trailer Data message over this wire will be 1 ms and is off low power / low voltage and consist of a type number, a unique serial number, 4 data bytes and a checksum.

3.1 CANbus message

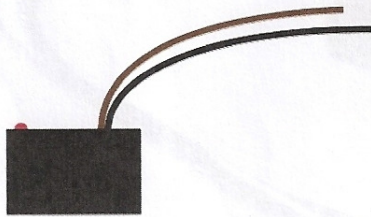
On each received message the Trailer data Transceiver will send one CAN message with PGN number 1FF10. Multiple messages will be separated by an interval of 25 ms.

The data fields are:

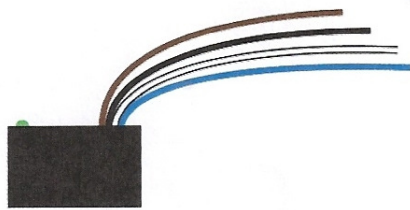
Type number (1byte) :	The type number of the transmitting device (always 37 for Trailer ID)
ID or serial number (3 bytes)	The unique serial number for this type of device. A global unique number created by the manufacturer.
Data bytes (4 bytes):	This bytes can contain the type specific data bytes.

3.2 Status LED

The LED will be Red after power-on.



The LED will be Green after successful sending or receiving a CAN message. When it's not possible to send a CAN message, the LED will turn Red.



on the receiving of each Trailer Data message the LED will be off for 150 ms. The LED will stay Green as long as CANbus messages can be send. The LED will be Red when CANbus messages cannot been send.

