



Device characteristics.



TCBM-Sender is a module used for trailer battery charging.

The module is for optimal level of battery voltage trailer by the recharging it from the car battery. The module is designed to work with 13-pin socket. The module can be used for upgrading existing installations tow hitch, as an extension to connect the caravan.

The module starts charging the battery trailer, after starting the engine when the car battery voltage exceeds 13,3V. This solution prevents discharge car battery on standstill when engine is off, no problems of engine restart. Charging of battery trailer, is stopped with the engine running at idle speed when the car battery have low voltage or in the case of a large current load the car battery. In this way, the module **TCBM-Sender**, prevents damage and discharging the car battery.

Technical Specifications.

Technical parameters:	
operating voltage	13,5V (+/-30%)
charging current	max 10A
quiescent current	max 1mA
Operating temperature range	-40...+85°C

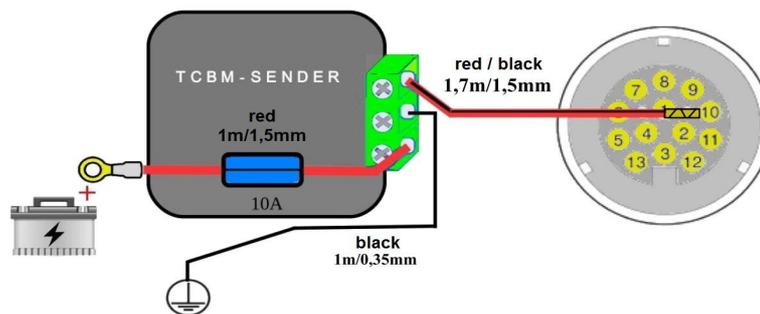


Module Installation.

Control input (red wire) must be connected to the car battery, ground must be reliable contact. Red-black wire should be connected to pin 10 of 13-pin trailer socket.

⚠ WARNING!

Do not connect the input, „dont directly” to the car battery (eg. The cigarette lighter socket in the boot, etc.) Because it can overload the circuit and cause it to fail.



In the event, when module is dedicated to charging additional batteries with a high capacity (eg. 250 Ah in camper), the output of the module must be accompanied relay 30-40A, in a manner like on the picture - option 2. Wires from the main battery, to the charging and of ground, must be min. 2.5 mm.

OPTION 2

Charging the battery camper

