

INSTRUCTIONS

Low Fuel Warning Light Module– ULF1

General

This product is designed to fit between a thermistor type low fuel sender and the fuel gauge input of a Digital Dash. As well as making the Digital Dash fuel gauge show empty, it may also be used to flash either the LED in a digital Dash or a stand-alone LED.

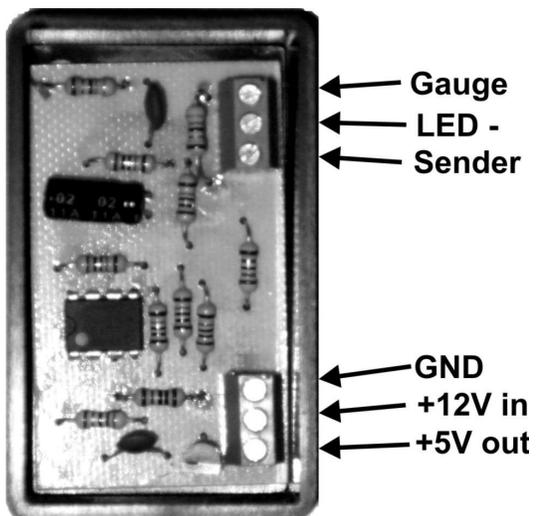
Installation

Warning- To prevent short circuits, disconnect battery before starting work..

a) Preparation.

1. Locate a suitable mounting location before connecting, where the unit will not be seen,
The unit can get quite hot when the tank is empty so bear this in mind when choosing a location.

The cover is removed by levering in the small slot at one end of the lid..



b) Make the connections.

Four to six connections are required depending on the application

- Gauge - This should be connected to the fuel gauge input of the digital dash
- LED - This should be connected to the negative lead of the LED (see below for more details)
- Sender - This should go to the insulated terminal of the thermistor sender
- Ground - Connect to a suitable ground connection in the wiring, or bolt to the vehicle chassis/body in a convenient place
- Power - Connect to a +12v fused supply that is only live when the ignition is on, refer to the vehicle manual as required.
- +5V - This is only required as the power source for a stand-alone LED

c) Notes on LED connection

The unit intermittently grounds the LED connection when the fuel level falls below the level of the sender. When the negative side of an LED is connected to this terminal, this will cause the LED to flash. The positive side of the LED should be connected through a current limiting resistor to +5V.

- LEDs in the KOSO RX2N already have the positive end of the LED suitably connected to +5V through a resistor.
- If using a stand-alone LED, connect the positive side of the LED through a suitable resistor to the +5V out terminal of this module.

d) Notes on connecting to a digital Fuel Gauge

When the sender senses low fuel, the Gauge connection is grounded through a resistor. This simulates the resistance of a 500 – 510 Ohm resistive sender when the tank is empty. The 500 or 510 Ohm range should be selected on the digital dash.

When connected to the sender input of a digital gauge such as the KOSO RX2N, this will cause the inbuilt fuel gauge to flash empty.

self adhesive tape is supplied on the rear of the unit, remove the protective strip and apply to a clean grease free surface..