

INSTRUCTIONS

Miniature High Temperature Warning Light Module– HT1

General

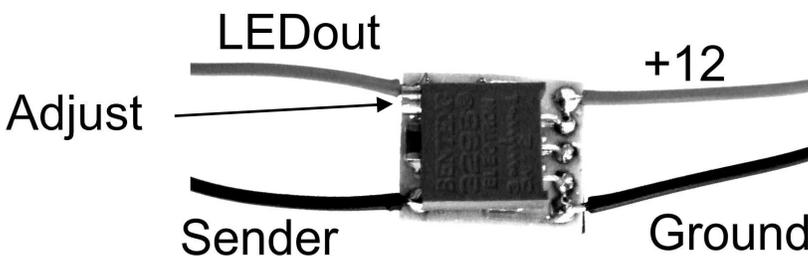
This product is designed to be small enough to fit inside the gauge of a vehicle temperature gauge system. The unit turns on an LED when the temperature reaches a level preset by the precision adjuster. The module should be fitted by someone competent at soldering. It must be connected to a gauge with a steady supply, NOT supplied via a thermal voltage stabiliser.

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 and not interfere physically with any moving meter parts.
2. Mount the LED in a 3mm hole (5mm if using the plastic bezel) Silicone gasket goo is useful to glue the LED in.. smear on the back of the LED once it is positioned.
3. Make sure you know which connections are which on the existing gauge.. mark them with a pen or draw a sketch



Note, in the picture above, the adjuster is on the left

b) Make the connections.

Four connections are required.

- +12 - Connect to the +12v (or regulated) supply that feeds the fuel gauge.
- Ground - Connect to a suitable ground connection in the fuel gauge, or bolt to the vehicle chassis/body in a convenient place
- Sender - This should go to the connection in the gauge that goes to the temperature sender
- LEDout - This should be connected to one of the LED wires (see below for more details)

PTC sensor (high resistance when hot) long LED wire (or Red) to +12V short LED wire (or Black) to “LEDout”
NTC sensor (low resistance when hot) long LED wire (or Red) to “LEDout” short LED wire (or Black) to Chassis Ground
If your LED lights when it should be off, and is off when it should be on, swap to the other method.

c) Calibration

With the sender temperature at the point where you want the LED to activate, adjust the screw until the LED is just switching on/off The adjustment can be up to 25 turns ! don't worry about going too far, it has a built in clutch.. (turning the adjuster clockwise lowers the resistance at which the LED changes state)

d) Fixing

Self adhesive tape is supplied on the rear of the unit, remove the protective strip and apply to a clean grease free surface..
(Note, if you substitute a different LED, ensure the current is limited to approx 20mA otherwise the IC will be damaged)

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