

Rotemex

O Gauge Ground Signal Kit



Post or Plinth Mounting

MAKES ONE SIGNAL

*Contains small parts
Unsuitable for children under 14*

Usage:

Used around yards and stations to permit shunting movements. For example at crossovers and release loops. Very common throughout the network.

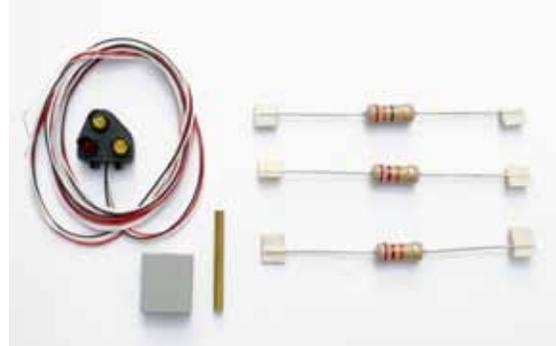
Painting:

The brass post should be polished with wire wool before painting to improve adhesion. The plastic parts can be painted without any preparation. Solvent based enamel colours are best on the brass tube though acrylic colours can be used on the plastic parts. The light unit is either Black or Grey. The post is usually Rail Grey and the plinth should be a concrete colour.

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Contents:

3 aspect light unit - Pre-wired and pre-assembled
Plinth
Post
Resistors- 22K ohm x 2
Resistor - 220 ohm x 1



For post mounting -

The brass post should first be polished with wire wool before painting to improve glue and paint adhesion.

Slide the brass tube over the wires and fix to the light unit using superglue. Take care not to strip the insulation. If shortening the post deburr the INSIDE of the tube to prevent damage to the wires. Drill a 2.5mm hole in the baseboard and secure with adhesive. Paint the tube mid grey.

For Plinth Mounting - fit the brass tube as above and slide the plinth over the tube and fix the Light Unit with Superglue. Drill a 2.5mm hole in the baseboard and fix the tube with adhesive.

A Single Pole Double Throw (SPDT) switch will be required to operate the signal

Indications:

OFF - Proceed

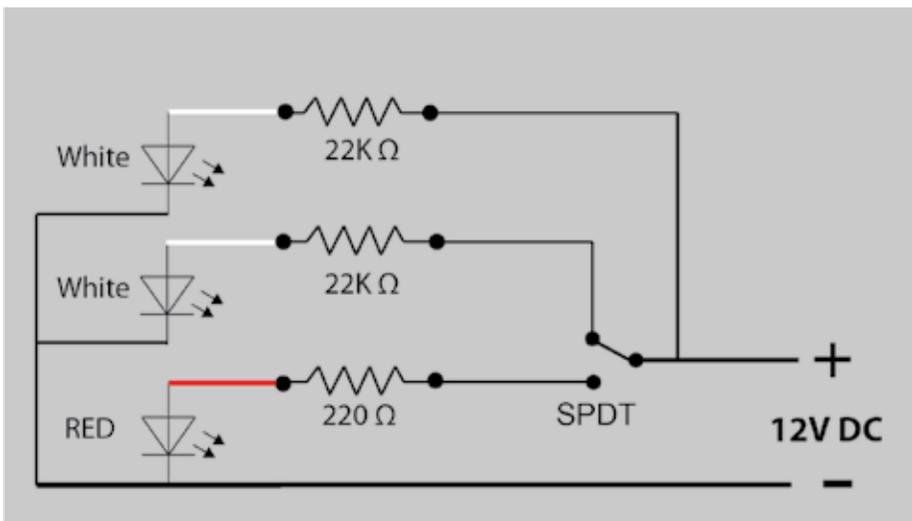


ON - Danger



LED colours are indicated by wire colour: Red for red, white for white and Black wire is common (Negative)

Solder the 22K Ohm resistors to the white wires and the 220 ohm to the Red wire and connect to a 12V DC supply *via a Single Pole Double Throw switch (SPDT)*. The Lower white LED is permanently on. The Upper white LED and the red are switched.



COMMON CATHODE

LED clusters are supplied pre-wired in “Common Cathode” (Common Negative) form.

DIGITAL CONTROL UNITS

Various digital control units are available which have built in resistors. There should be no problem using these units but you are advised to use my supplied resistors in any case. The LED resistor combination I supply has been carefully worked out to provide realistic colour, long LED life and crucially, balanced brightness between the colours. I can supply alternative resistors if needed to adjust brightness etc. Contact me if you need help.

SAFETY

DO NOT, under any circumstances connect LEDs without the specified resistor or it will fail immediately.

This kit uses resistors rated at 1 watt. Do not use a resistor with a lower power rating as it may overheat. Ensure ventilation around the resistor

DO NOT, under any circumstances use batteries to test LEDs – The application of batteries of even low voltage can cause the LED to explode and cause injury.

You are advised to use a **regulated** 12V DC supply – Note that the auxiliary supplies on most controllers are not regulated and have fluctuating voltages often much higher than 12V. This could result in failure of the LED and in extreme cases, cause a safety issue as the LED and resistor may overheat and burn out.