

Rotemex

O Gauge Shunt Limit Kit



Post or Plinth Mounting

MAKES ONE SIGNAL

*Contains small parts
Unsuitable for children under 14*

Contents:

2 aspect light unit - Pre-wired and pre-assembled.

Plinth

Post

Resistor - 100 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.

Usage:

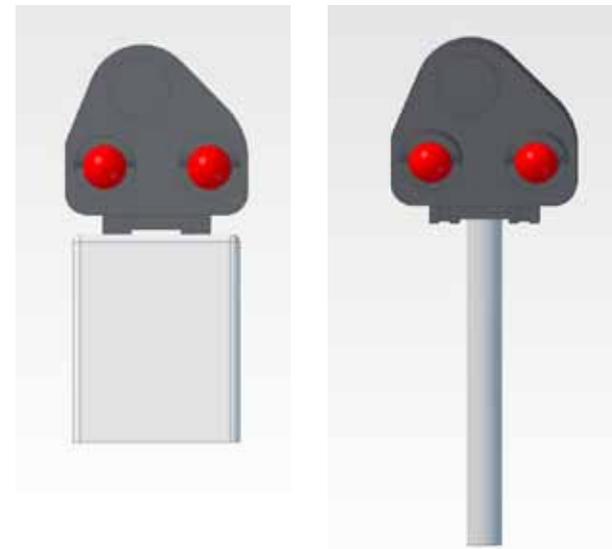
RED RED Aspect permanently illuminated to denote safe limit of shunting movements.

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.

Indications:

Shunt limit is always illuminated



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

Solder the 100 ohm resistor to the Red wire and connect to the positive of a 12V DC supply. Connect the black wire to the Negative supply.



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.