

Routemex

O Gauge Associated Position Light Kit



Light unit with Bracket

MAKES ONE SIGNAL

*Contains small parts
Unsuitable for children under 14*

Usage:

White/White Aspect - Usually mounted underneath or beside main signal and only illuminated to permit shunting movements while main signal remains at red. Commonly used in and around stations.



Hole drilled above platform position



Contents:

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

Plinth

Post

Brass Wire

Resistor - 10k ohm x 1



A simple on-off switch will be required to operate the signal

For mounting on the post under a main signal:

If fixing when making a main signal, make up the post and base first and then proceed as follows:

First mark the preferred mounting position and drill a hole 1.2- 1.5mm hole into the post **above** the mounting position. (If placed below the platform it will be very difficult to insert cables)

Clear swarf and smooth hole edge.

Using Superglue - fix the mounting bracket to the post - leave to dry.

Fix a piece of Brass wire through one hole of the bracket as shown.

Allow to cure then wrap the wire end around the post and insert through the other hole in the bracket and glue underneath as shown.

Leave the fixing of the light unit to the bracket until the main signal is assembled and the basic structure painted but fix the Position light in place before inserting the main signal LEDs.

To fix the light unit - scrape back paint on the bracket and feed the wires through the post and fix the Light Unit with superglue.

If fixing to an existing signal proceed as follows:

Remove the wiring from the post to avoid damage.

Scrape back paint and drill hole above mounting position and fix bracket with superglue. Fit brass wire per the photos above.

Mount the Light Unit with superglue.

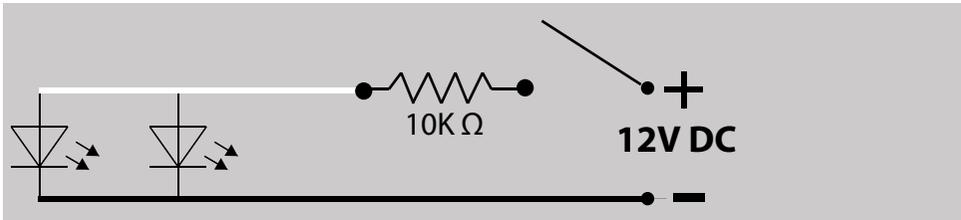
If removing the wires is not possible, the wires can be fixed on the outside of the signal post and this is often seen on the real railway.

Painting:

The plastic parts can be painted without any preparation. Solvent based enamel colours or acrylic colours can be used. The light unit is either Black or Grey and both types are seen around the network.

Black wire is Negative
Black wire with white tip is positive

Solder the 10k ohm resistor to the White tipped wire and connect to the positive of a 12V DC supply via an on-off switch. Connect the black wire to the Negative supply.



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.