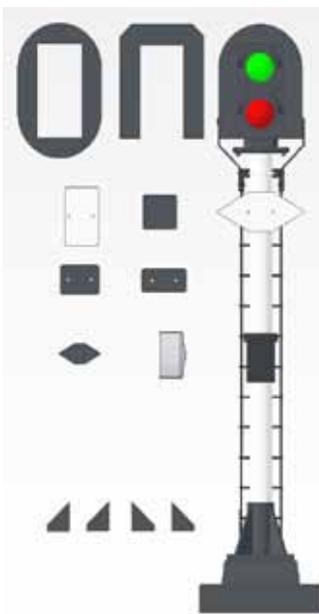


A modular range of colour light signals enabling the modeller to choose from a range of kits to make up both main and junction signals with Route Indicators. Operation is by 12VDC.

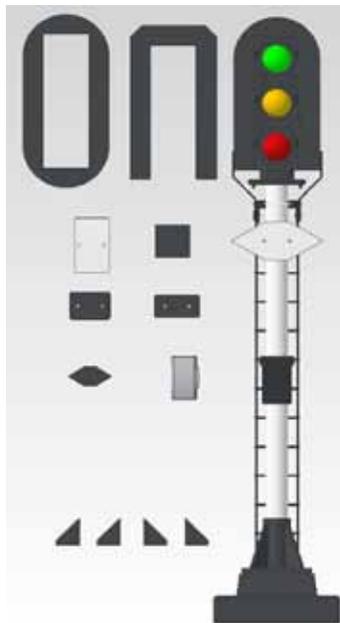
Multi option main signal KITS

2 Aspect Signal Kit



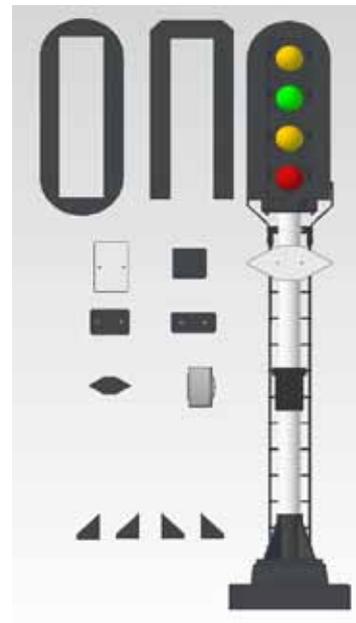
£20.00

3 Aspect Signal Kit



£24.00

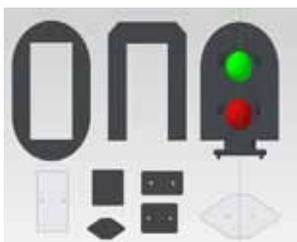
4 Aspect Signal Kit



£28.00

A choice of different target boards means that each kit can be made in either Angled Back, Round Back or Double Round Versions. An assortment of ID plates and two different telephone boxes suit different eras.

2 Aspect Head Only



£13.00

3 Aspect Head Only



£17.00

4 Aspect Head Only



£21.00

HEAD ONLY kits are used with Route Indicators to make Junction Signals and can also be used by modellers to make their own design of Bracket and Gantry signals.

Contains small parts - Unsuitable for children under 14

Junction Signals

Junction Signals are made up by choosing a **Head Kit** and a **Route Indicator** and building them onto a **Junction Post Kit**. This gives 6 possible combinations:

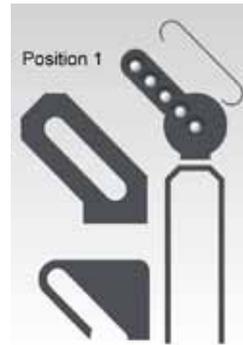


Junction Post Kit



£20.00

**Position 1
Route Indicator**



£20.00

**Position 4
Route Indicator**



£20.00

Two **ROUTE INDICATORS** are available in Position 1 and Position 4. Each comes with two target boards, a sunshade and a support bracket for mounting on the Platform of a Junction Post. They can also be fitted to directly to the heads of the 2/3/4 aspect Main signal kits. A jig is included to mark the wire hole position.

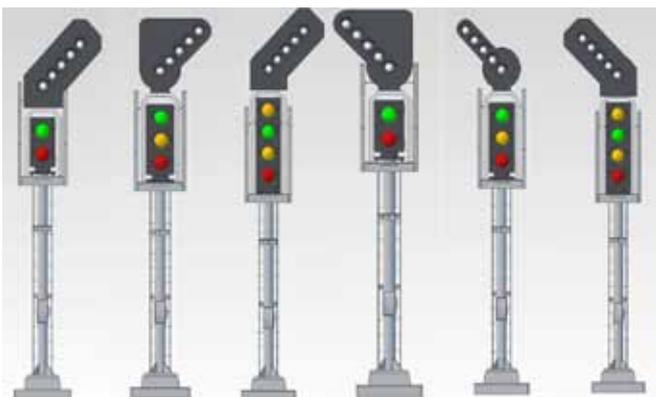
A Light Unit Only option is available for modellers who don't need the support bracket or target boards.



Position 1
Light unit (no fret) £15



Position 4
Light Unit (No Fret) £15

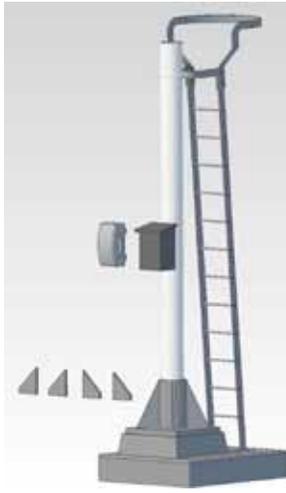


Junction Signal Options

2,3 or 4 Aspect head with Position 1 Route Indicator

2,3 or 4 Aspect Head with Position 4 Route Indicator

All with a choice of target boards



£10.40

Main Signal Post Kit

This post kit is available for modellers wishing to build special or non standard designs. and can be used in conjunction with the HEAD ONLY Kits and Route Indicators.

Electrical Operation is by 12VDC.

LED clusters are supplied pre-wired in “**Common Cathode**” (Common Negative) form. If you need them wired “Common Anode” (Common positive) please email me at the time of ordering and I’ll change them

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. The resistors fitted to digital control units are usually only the minimum to protect the LEDs and will result lights being too bright and unbalanced.

I can supply alternative resistors if needed to adjust brightness etc. Contact me if you need help.

PREPARATION

Preparation and cleaning of all parts will improve glue, solder and paint adhesion.

Clean off flash and debris from all plastic parts – pay particular attention to the angle plate slots in the base. Clean metal parts by first washing in warm water and detergent to remove surface contaminants and etching residue. Clean the brass post and 0.4mm rods with fine steel wool to a high polish. The Nickel Silver components are most easily cleaned while still on the fret.

I recommend CARRS SURFACE CONDITIONER for a final clean of metal parts as this will remove the invisible oxide layer and greatly improve paint and glue adhesion and simplify soldering. Some components from the post kit, head kit and route indicator can be prepared and painted at the start as this will make construction faster and simpler.

PAINT COLOURS

Early colour lights were usually painted using the same colours as semaphores i.e. White posts and black details. Later signals are normally coloured grey on the posts and ladders but Black for the signal head and target board.

There is some variation in colours depending on age and location. Due to long exposure to the elements they have often faded to a mid-grey so it can be hard to tell what the original colour was.



SAFETY

Contains small parts - Unsuitable for children under 14

Operation is by 12V DC

DO NOT, under any circumstances connect LEDs without the specified resistor.

This kit uses resistors rated at 1 watt. Do not use a resistor with a lower power rating as it may overheat. Please ensure you use the correct resistors for each kit otherwise the LED's will fail. Please ensure ventilation around the resistors

DO NOT, under any circumstances use batteries to test LEDs without a resistor – The application of batteries of even low voltage can cause the LED to explode and cause injury.

DO NOT Stare directly into an LED