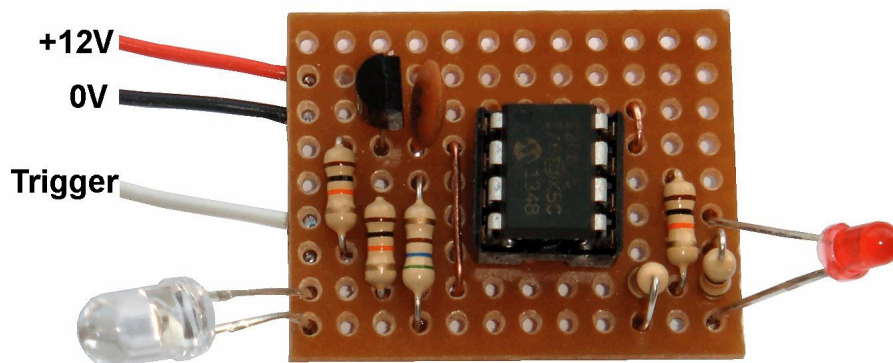


### Pocket Money Kit of the Month – Feb 2019

#### No 8 – Multi-purpose flasher

This easy to build project has four possible uses:

- To simulate a welding machine. Every 15 seconds, there is a burst of flashes from a LED to give the impression of a welding operation. With a large LED, it could be situated inside an engine shed or machine shop. With a small surface mount LED, it could be used 'outdoors' on a construction site or at trackside repairs. A red or orange LED can also be connected to this module. The LED illuminates during the flashing period then slowly dims, providing an *'afterglow'* effect. (Used in our *'Uppen Doon'* demo layout).
- To simulate the arcing from a tram's trolley pole or an electric loco's pantograph pickup. Every 5 seconds, there is a random number of flashes from an SMD LED placed on top of the trolley pole or pantograph close to the catenary wire. (Used in the tram on our *'Backen Forth'* demo layout).
- To simulate the flickering of a fluorescent tube on startup.
- To simulate the pulsing aircraft warning lights that are fitted on tall structures (buildings, TV masts, power pylons, bridges, etc.)



Two wire links are used to select the mode of operation.

The options are:

- |                    |                            |
|--------------------|----------------------------|
| No links fitted    | – welder simulation        |
| Only link 1 fitted | – fluorescent tube startup |
| Only link 2 fitted | – pickup arcing            |
| Both links fitted  | – pulsing warning light    |

The trigger input is used for the tube startup mode and could come from a switch, relay contacts, CANACC8 or EzyBus outputs, etc.

The kit is available at all West of Scotland activities (for £1.20) or can be purchased from the national MERG website.