

MR6xx Comon Anode LED Front & Rear Lights

Micron MR6xx receivers can automatically control directional lighting based on the speed controller direction. This behaviour is in the default configuration (see the receiver configuration table for other setups).

Many small diesel locos have a single light housing at the front and rear so it is convenient to use a single bi-colour LED that can display red or white. These are widely available in a 3 leg version with a common anode; common cathode types are less commonly available and 2 leg bi-colour LEDs present problems choosing a series resistor value that ensures equal brightness of red and white, especially when 2 are connected in paralell for front and rear lights.

The 3 leg common anode LED is connected with the anode to positive and each colour wire to negative. This is easily achieved using F1 and F2 on Micron receivers, most of which also have a 3.3V output from the on-board regulator. If a receiver has no 3.3V output, the LED anode should be connected to battery positive and the series resistor values increased appropriately.

The default LED2 output is on P1; to move this to F1, the program sequence 4-1-2-P-1, where P is 7 for MR603c and 4 for MR601a.

The diagram below does not show a particular receiver, refer to the receiver's user manual for the location of the 3.3V , F1/A and F2/B pads.

