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Micron MSW11a Electronic Switch

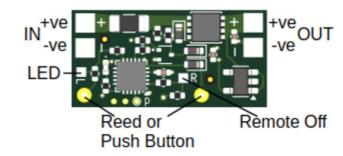
MSW11a is small self-contained electronic switch capable of handling up to 3A at a max of 13V (1S to 3S Lithium or 2 to 10 NiMH cells). The unit measures 20mm x 10mm (without connections) and can have an on-board reed switch or use a remote reed or push button. An on-board LED provides feedback of the switching action and switch state. It may also be connected to a Micron receiver LED2 output. Useful in model vehicle installations where a physical switch would be obtrusive.

A resettable fuse is mounted on the board; the default has a 2A holding current. Other fuse values are available.

Connections

Connection pads on the MSW11a PCB are provided for:

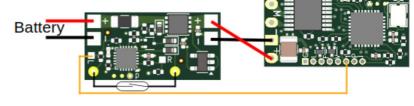
- battery input
- switch output
- reed or push button activation switch
- LED2 input (3.3V to 5V), or 'on' indicator
- remote off (2.5V to 5V to activate)



MSW11a is available as a bare board with reed switch mounted or supplied seperately and with optional input and output wires.

Use with Micron Receiver

The diagram shows MSW11a used with MR601a using a reed switch and with LED2 connection to P1 on the MR601a. The Remote Off pad is not shown connected; if required this can use P3 with ch3 low used to



switch off (S1 toggle down on Micron transmitters).

MSW11a may be used with MR603 provided that the peak current is kept below 3A. For average currents above 2A, MSW13a is a better choice as this can handle up to 10A.

OperationEither a magnetically operated reed switch or a push button can be used to activate MSW11a; the LED will give feedback on the status of the switch. MSW11a should be mounted so that the LED is visible e.g. behind a grille or below the chimney on a steam loco.

The following notes assume a reed switch is used.

To switch on:

- hold the magnet near the reed
- the output will immedately switch on
- the LED will light and start flashing after 3s
- remove the magnet

If the magnet is removed before the LED starts flashing, the output will switch off. The LED will flash briefly every 6 seconds to show that the output is still on.

To switch off:

- hold the magnet near the reed
- the LED will slow flash for 3s then rapid flash for 3s
- remove the magnet

