



Hushbutton MRA

Microphone Ring Assembly

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Description

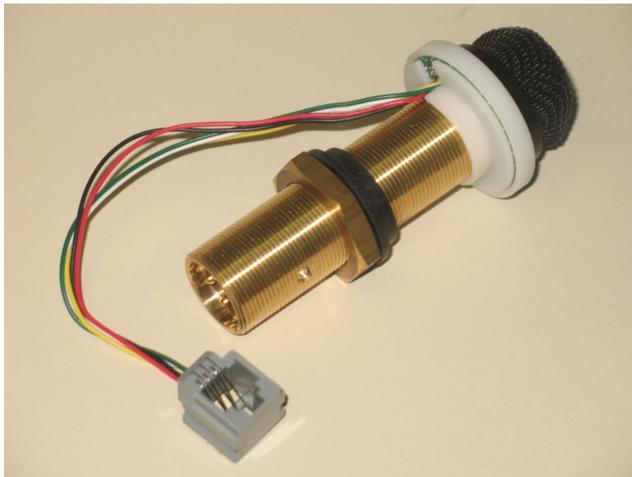
The Hushbutton MRA provides end-user control of table-mounted microphones.

It is a translucent plastic assembly containing four microswitches and a multitude (16 each) of red and green LED's. It sends a simple contact closure to a control interface when clicked, and lights up red, green or orange in response to commands from a control system.

A typical arrangement is for the MRA is to light green when the mic is live during a conference and red when muted, with 'white' (actually unlit) the default condition when there is no conference.

The MRA's control output has two states, normally off and momentary on. Pressing anywhere on the ring produces a satisfying tactile click caused by the operation of one or more of the four micro-switches; with properly-set gain structure the click is below the system noise-floor so it won't get picked up by the microphone.

Connections



1. MRA Control Connector
 - a. 6-pin RJ-12 female
 - b. Connects to Hushbutton Controller

Installation

The Hushbutton MRA is compatible with any table microphone with a 20mm (0.79") body diameter. This includes mics by Audio- Technica, beyerdynamic, CAD (Astatic) and ClockAudio, but not the Shure MX395, which is 2mm too large. Catch Technologies does not recommend or sell microphones.

The MRA requires a 24mm (15/16") mounting hole, with a small 'mouse-hole' cut with a file, chisel or burr for its wires to exit.

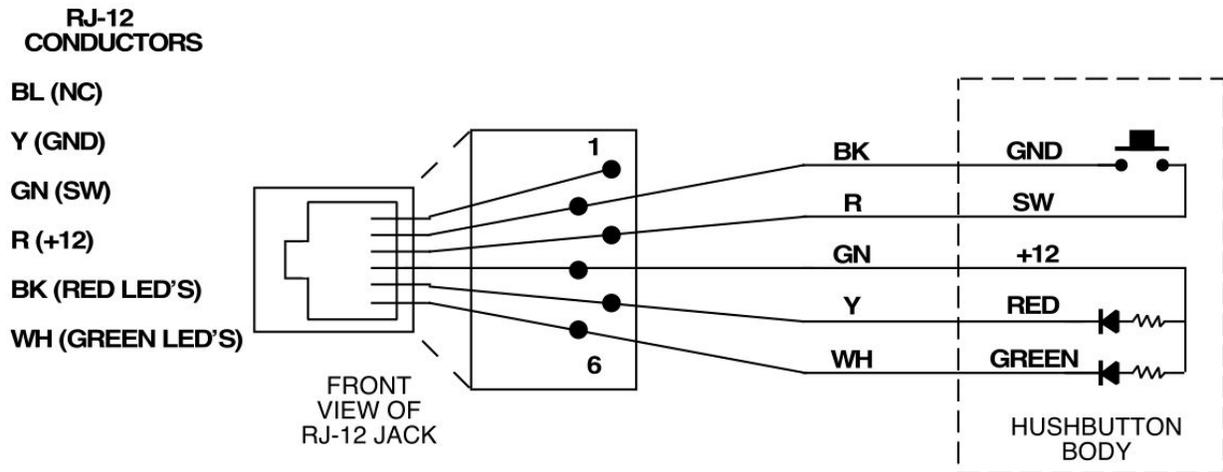
The MRA itself takes the place of the microphone's upper rubber isolation ring, which is discarded. The lower isolation ring is retained, with the mounting nut only finger-tight.



Pinout

The Hushbutton MRA works best when used with the Hushbutton PCI IP Controller. The PCI allows for quick, plug & play installation and straight-forward control with our free programming modules.

The MRA pinout is provided here for when it makes sense to connect it to something other than the Controller.



Revision History

Rev B: November 2012, Improved power efficiency.

Rev A: Original Design