

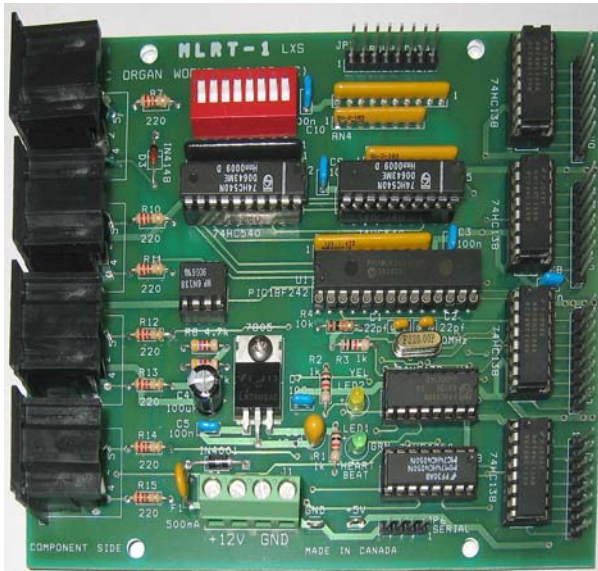
Classic Organ Works

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MIDI Lighted-Rocker Tabs Controller MLRT-1



Description

The MLRT-1 is a MIDI-based controller board that works with the Classic Organ Works LRT-3A Lighted Rocker Tabs.

It is designed especially for use with organ consoles used to control Hauptwerk virtual organs via MIDI.

Up to eight full LRT-3A boards (128 stops) can be controlled.

Lamps on the LRT-3As are controlled by the MLRT-1 from MIDI data returned from the organ control system computer.

The MLRT-1 could be used with lighted drawknobs that pull-on and push-off but the lamps require a separate lamp-driving board.

Board type MLPB-1 should be used for lighted push-buttons.

The two MIDI-Through connectors allow other MIDI-driven devices to be used in order to reduce cabling. These outputs are simply duplicates of the MIDI-In signal.

The MLRT-1 may be mounted by either clips or screws and does not require any special cooling.

MIDI Specification

Pressing an ON button sends a BF 51 nn message: (nn:0-127).

Pressing an OFF button send a BF 50 nn message: (nn:0-127).

Received MIDI messages turn lights ON or OFF. e.g. BF 51 nn turns light on for switch number (nn+1). BF 50 nn turns light off for switch number (nn+1) where $0 < nn < 127$, representing switch # 1-128. These return messages are responded to but not re-transmitted.

RESET = BF 79 00 (Reset controllers) is a "short-cut" message to turn off all lights.

The MIDI channel number is configurable by four sections of the DIP-Switch (the other four sections are presently undefined).

Hauptwerk manages the lights. Pistons on Hauptwerk will update the lights.

Features

- Controls up to 128 stop tabs in 16 groups of 8
- Momentary action - press tab bottom for On, top for Off
- Tabs illuminate when On
- MIDI channel selectable 1-16 (Send and Receive on same channel)
- 'MIDI OUT' port for switch data to PC
- 'MIDI IN' port for lamp data from PC
- Two MIDI-Through ports (buffered duplicates of MIDI-IN)
- MIDI IN data is merged with switch MIDI data to prevent conflicts
- Power: +8V to +15V D.C. from console supply. Current depends on quantity of lamps lit and is nominally a maximum of 600 mA
- Board dimensions (WxL): 5.0" x 4.3" (12.7cm x 10.92cm)

Applications

The MLRT-1 is for use on organ consoles to provide MIDI control of Lighted-Rocker Stop Tabs type LRT-3A.