AMP DATAVISION Keyboard Info Sheet

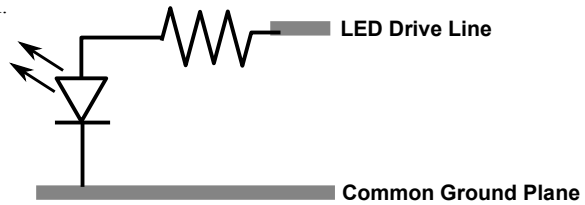
Information 100% reverse engineered by
Dr. Orion Lawlor, lawlor@alaska.edu
Version 2012-02-11
No contact with any manufacturer.
My apologies for any errors!

Part is labelled
DATAVISION P.N. 12075
AMP Keyboard Technologies, Inc.
U.S. Patent 3860771
Sold 2012-02 for $1.49 by
Electronic Goldmine, part G17927

Typical LED Layout

Each LED line connects to the + side of one LED via an onboard 400 ohm resistor. They operate on 1.5 to 5Vdc, under 10mA. The top green LED has a 1Kohm resistor, and draws 7mA at 12Vdc (less at 5Vdc).

Several boards have bad red LEDs, which conduct but do not light up.



Typical Keypad Key Layout

Each key connects one row line, one column line, and the common ground plane. All connections are normally open, and all three make contact when key is pressed. Contact resistance is around 20 ohms, so current rating is likely milliamps.

Actual depth order is unknown; the order drawn here is likely incorrect.

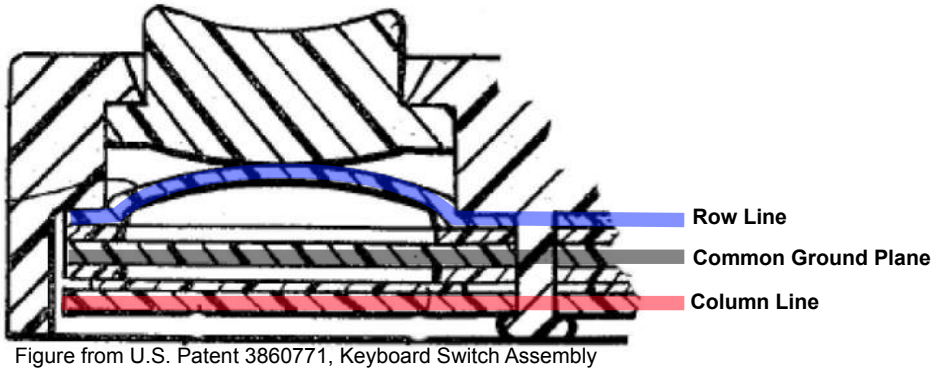
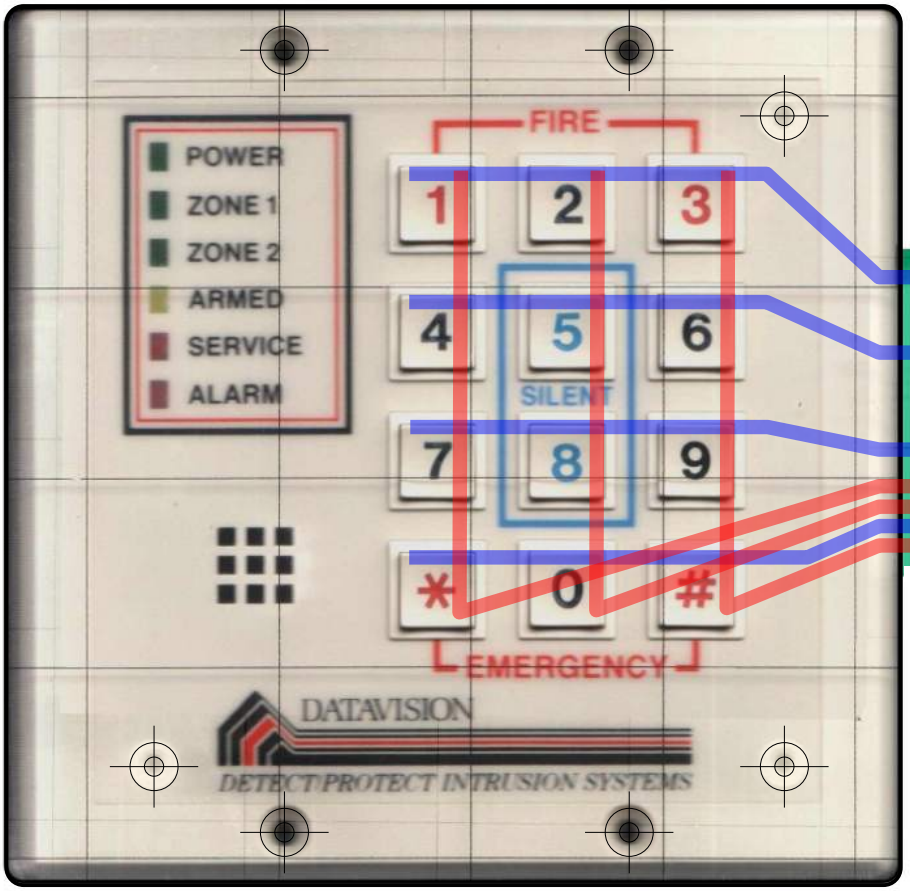


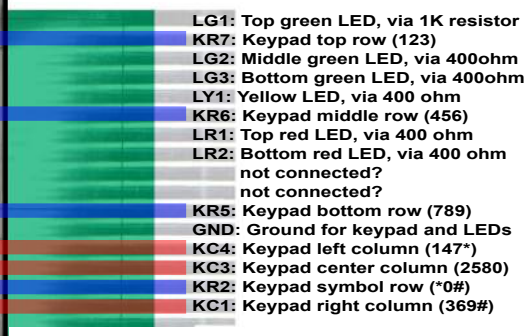
Figure from U.S. Patent 3860771, Keyboard Switch Assembly

Mechanical and Electrical Connections



Plastic header strip is at 0.1" pin spacing, 16 pins. It connects nicely to a pressure-type connector, like the old ISA slot female connector, using a 0.050" nonconductive spacer.

Green Header Pinout



Scale box: should be exactly 1 inch (25.4mm) in both directions

Typical microcontroller hookup:
Drive all 6 LED lines directly from digital output pins.
Keypad t 7 digital input pins with weak pull-up resistor.
Scan keypad pins for row and column going to ground.