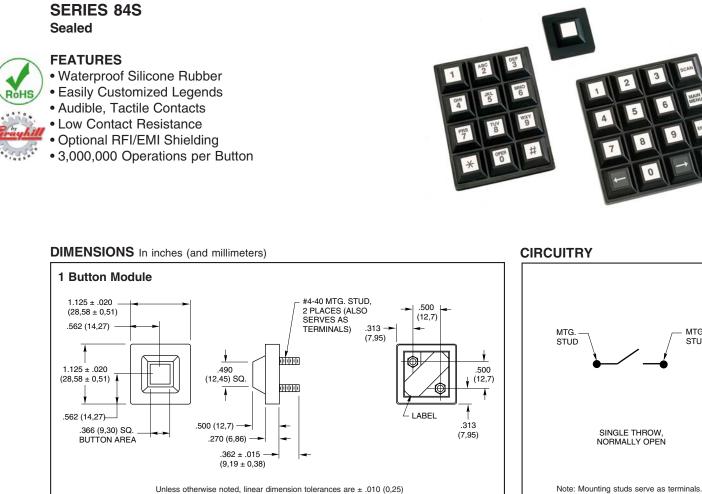


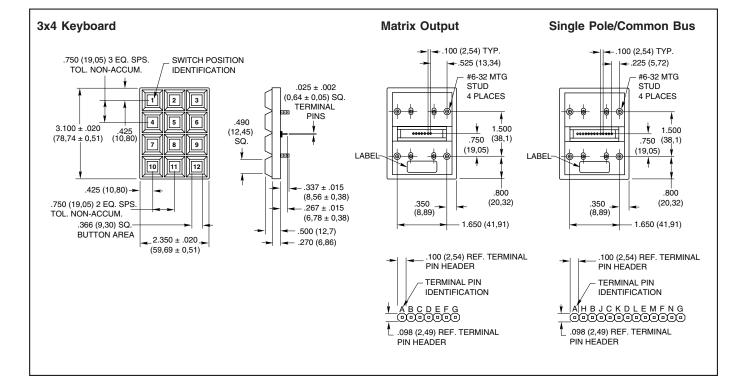


MTG

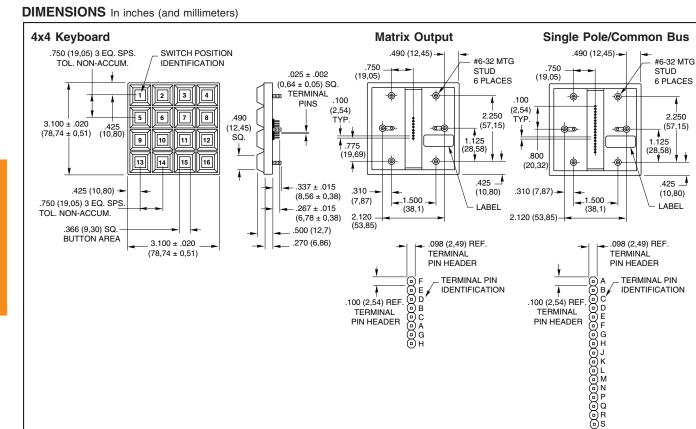
STUD



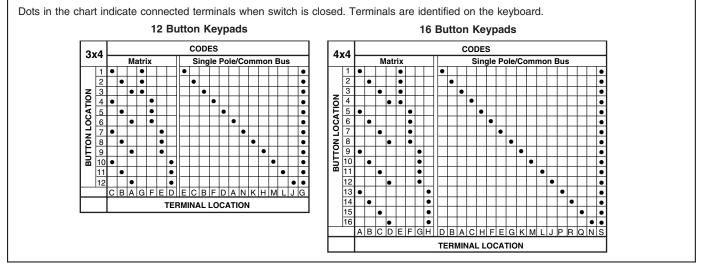
Unless otherwise noted, linear dimension tolerances are ± .010 (0,25)



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CODE AND TRUTH TABLES



SPECIFICATIONS **Rating Criteria**

Rating at 24 Vdc: ≤10 milliamps resistive Contact Bounce: 4 milliseconds maximum at make; 10 milliseconds at break Contact Resistance: MOS, TTL, and DTL compatible. (10 ohms maximum) Life Expectancy: 3 million operations/button Insulation Resistance: [1,000 megohms

Operating Features

Pre-Travel: .030 inches minimum Operating Temperature: -55°C to 85°C

Operating Force: 20 ± 4 ounces Humidity: 0 to 98% (no condensation) Minimum Push Out Force Per Pin: 5 pounds

Materials and Finishes

Terminal Pins: Copper alloy CDA 725, solder-plated

PC Board: FR-4 glass cloth epoxy Contact Dome: Stainless steel, selectively gold-plated

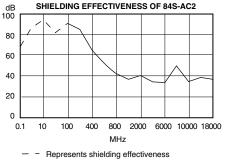
Dome Retainer/Rear Seal Sheet: Polyester

Mounting Studs: Phosphor bronze Optional Hex Nut: Stainless steel, passivated Optional EMI Shield: Aluminum foil Keypad: Silicone rubber Buttons: ABS Cycolac, grade FR15U

Shielding Effectiveness

Results shown are typical for a standard Grayhill Series 84S Keyboard. A conductive gasket will generally increase the shielding, depending on the size and shape of the gasket and its material. Data derived for E-Field Radiation.





greater than or equal to line.

Frequency MHz 0.1 10 400 800 2,000 6,000	Rating in dB [66.2 [94.8 90.5 64.2 42.3 40.5 33.1
6,000	33.1
10,000	34.4
18,000	37.0

Test Method:

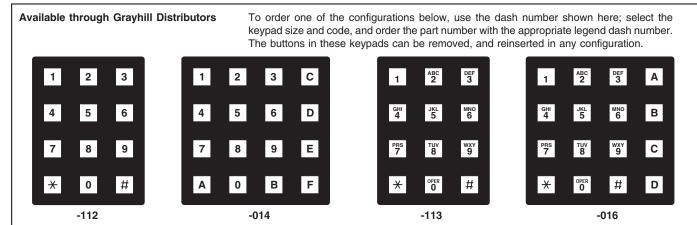
Measurements were made with the keyboard mounted to a brass plate, which in turn was mounted to a shielded enclosure containing the

receiving equipment. A signal generator provided the frequency source that was radiated from the transmitting antenna to the enclosed receiving antenna. The spacing between antennas was maintained constant throughout the frequency range. The effectiveness rating is determined by establishing a reference reading without obstruction between the two antennas and determining the difference between that reading and the test setup reading.

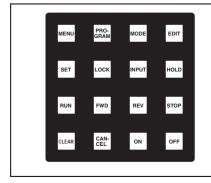
Note:

When measured in actual equipment, shielding effectiveness is determined by many factors. This method accurately represents the shielding effectiveness of the Grayhill Series 84S under ideal test conditions.

STANDARD LEGENDS



CUSTOM LEGENDS



Library of Legends

Grayhill maintains a legend library which contains the most often requested special legends and many unusual ones. If the legend is in the library, the cost to utilize this legend in your keypad configuration is minimal. If the legend is not available, Grayhill can list the charges required to add your legend to the library. In this manner, new legends are added on a periodic basis. Custom legends to fit your unique requirements may not be as expensive as you think, contact Grayhill.

Adding Color

Use colored buttons to segregate button groupings or to provide originality. Available in black legends on white or yellow buttons, or in white legends on black, green, red or blue buttons. Two popular combinations, black on white and white on black, are available from Grayhill stock. Delivery time will increase for other color combinations.



HEADER CONNECTORS

Compatible with: Samtec, Inc. Header Series BCS, BSW, CES, ESW, ESQ, SLW, SSW, SSQ, IDSS and IDSD or equivalent.

Available from your local Grayhill Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

ORDERING INFORMATION

