

SERIES 84S Sealed

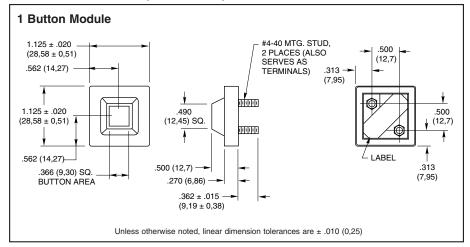


FEATURES

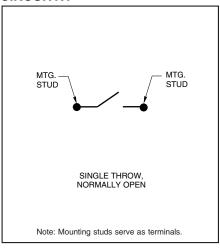
- Waterproof Silicone Rubber
- Easily Customized Legends
- Audible, Tactile Contacts
- Low Contact Resistance
- Optional RFI/EMI Shielding
- 3,000,000 Operations per Button

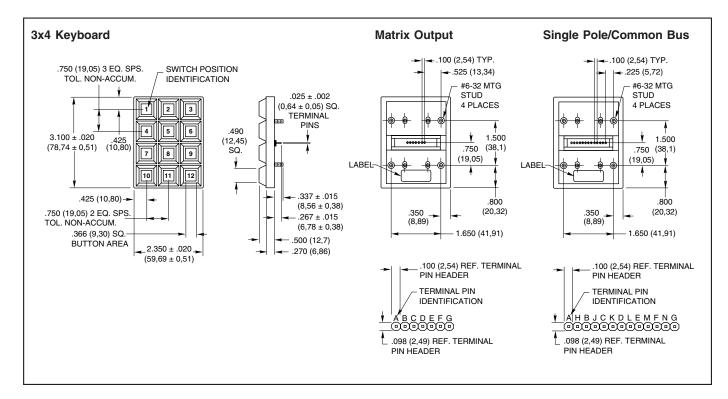


DIMENSIONS In inches (and millimeters)



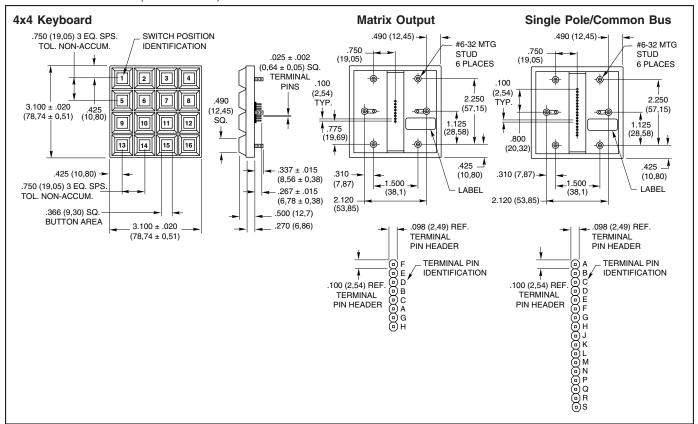
CIRCUITRY







DIMENSIONS In inches (and millimeters)



CODE AND TRUTH TABLES

Dots in the chart indicate connected terminals when switch is closed. Terminals are identified on the keyboard.

12 Button Keypads

2	3x4		CODES																				
JA4		Matrix								Single Pole/Common Bus													
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16 Button Keypads

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"	`	Matrix								Single Pole/Common Bus															П	
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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

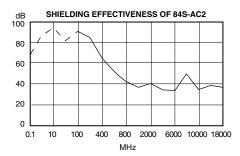
Keypad: Silicone rubber

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.





 Represents shielding effectiveness greater than or equal to line.

Frequency Rating MHz in dB 0.1 □66.2 10 -94.8 100 90.5 400 64.2 800 42.3 2,000 40.5 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.

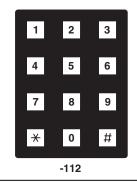
Note:

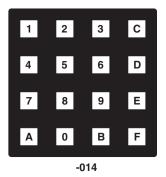
When measured in actual equipment, shielding effectiveness is determined by many factors. This method accurately represents the shielding effectiveness of the Grayhill Series 84S under ideal test conditions.

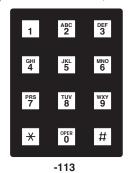
STANDARD LEGENDS

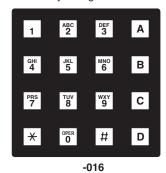
Available through Grayhill Distributors

To order one of the configurations below, use the dash number shown here; select the keypad size and code, and order the part number with the appropriate legend dash number. The buttons in these keypads can be removed, and reinserted in any configuration.

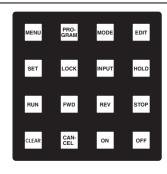








CUSTOM LEGENDS



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.











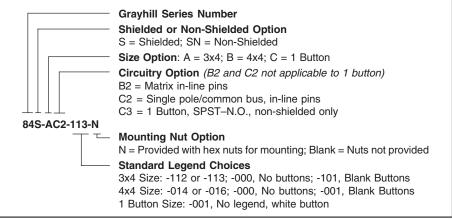


HEADER CONNECTORS

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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Input Devices category:

Click to view products by Grayhill manufacturer:

Other Similar products are found below:

80260-00 81485-28 81521-08 FKB4720-103 84250-26 84980-04 84S-AC1-000 JD-0700EU-2 JM-0800-2 JW-T0100 89498-13 89758-05 89886-26 89941-00 G80-3000LSCEU-2 MJ0FGGRY JM-0800-0 84S-BB1-004 81601-26 UL21KMZQ G8011900LPMUS0 G84-4700LUCUS-0 81485-26 84105-13 V400-W24 5M V400-W23 5M G84-5200LCMEU-2 DT2257X20V00GRY 84Z2029-78 84Z2029-79 V400-W23P 5M VW3A8151R20U V400-W24 15M LT1332D V400-W24 10M V400-W24P 15M V400-WM0 1M V400-W24P 10M V400-W23P 10M TCS-1492OP V400-W23 3M LT1372D LP1007EXXH00R DT2253X20V00BLK 100133BX EZ08-230013 81248-04 89887-26 90215-00 HB110C3NWBNA