Grayhill

Sealed

FEATURES

SERIES 84S

- Waterproof Silicone Rubber
- Easily Customized Legends
- Audible, Tactile Contacts
- Low Contact Resistance

1 Button Module

 $1.125 \pm .020$

.562 (14,27)

 $1.125 \pm .020$

 (28.58 ± 0.51)

.562 (14,27)

.366 (9,30) SQ.

BUTTON AREA

 $(28,58 \pm 0,51)$

- Optional RFI/EMI Shielding
- 3,000,000 Operations per Button

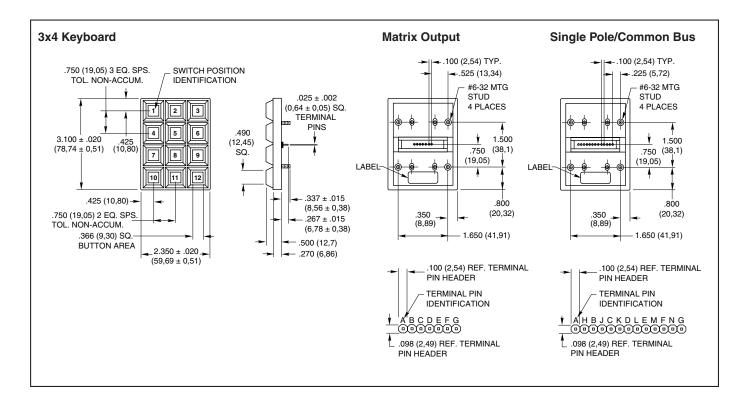
DIMENSIONS in inches (and millimeters)



CIRCUITRY

SINGLE THROW, NORMALLY OPEN

Note: Mounting studs serve as terminals.



#4-40 MTG. STUD,

.313 -

(7,95)

LABEL

.313

(7,95)

2 PLACES (ALSO

SERVES AS

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an the

Unless otherwise noted, linear dimension tolerances are ± .010 (0.25)

.490

(12,45) SQ.

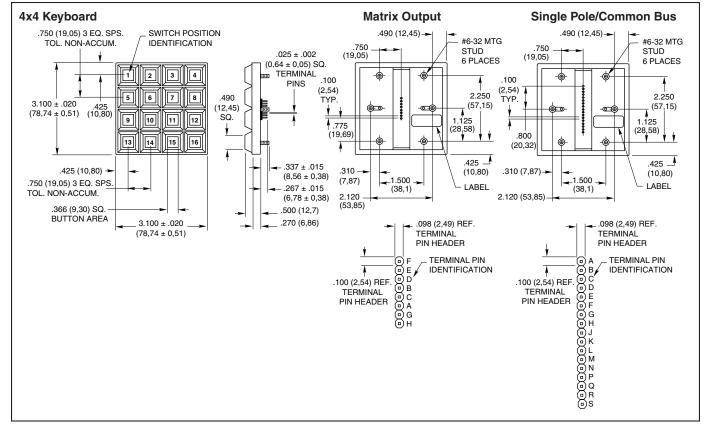
.270 (6,86)

.362 ± .015 -(9,19 ± 0,38)

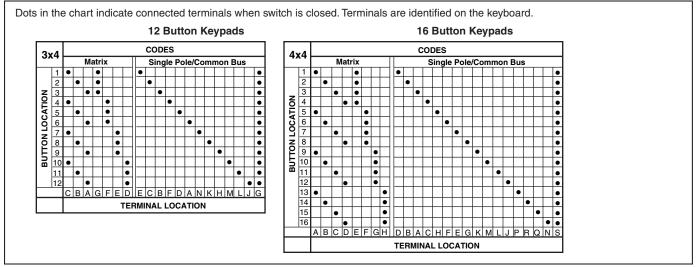
.500 (12,7)

TERMINALS)

Trayhill



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

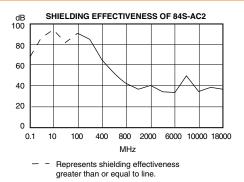
Terminal Pins: Copper alloy CDA 725, solder-plated PC Board: FR-4 glass cloth epoxy Contact Dome: Stainless steel, selectively gold-plated

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.



Frequency MHz 0.1 10	Rating in dB 66.2 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.

Grayhill

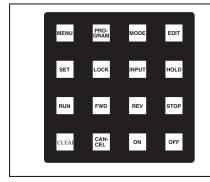
Note:

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. 2 1 2 3 авс 2 DEF 3 A 1 3 С 3 ^{АВС} 1 1 JКL 5 мNO 6 Gні 4 4 4 5 D GНI 4 ^{јк∟} 5 мNO 6 в 5 6 6 PRS 7 тиv 8 wхү 9 PRS 7 тиv 8 9 wxv С 7 8 9 7 8 9 Е OPER 0 # OPER 0 D ★ 0 # Α 0 В F × ★ # -112 -014 -113 -016

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.



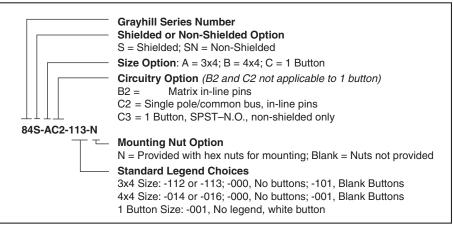
HEADER CONNECTORS

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 :

80260-08 M11L0A1 M11L0B1M M21L0H1PX M41C091P100 80260-00 81521-08 FKB4720-103 84250-26 84980-04 84S-AC1-000 C1000C1P JD-0700EU-2 JM-0800-2 JOY-THUMB JW-T0100 89498-13 89758-05 89886-26 89941-00 FQ-XT G3-A1AM151NNNN G80-3000LSCEU-2 M11C011B TH500P00D4 MJ0FGGRY JM-0800-0 KBCV-4100W MR2110R5BB 60C22-M7-4-020S 67A-DF-3C-060C 84S-BB1-004 81601-26 G8011900LPMUS0 G844420LUBEU0 G84-4700LUCUS-0 89701-26 81485-26 84105-13 V400-W24 5M V400-W23 5M FTRB4GA45ZB05 G84-5200LCMEU-2 M11F061P 84Z2029-100 4P182F1D0100 M41L091M M41L091P 60A00-8-050C 84Z2029-78