

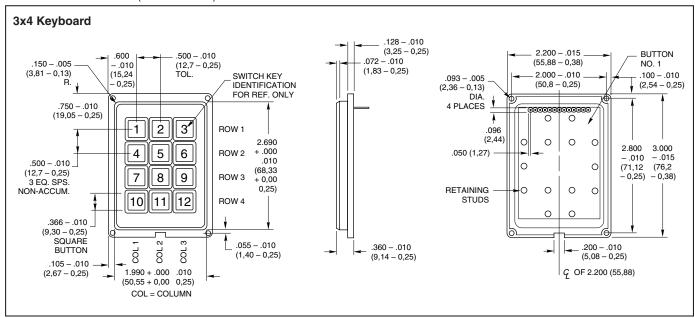
SERIES 86 Unsealed, .500" Centers, Flange Mounted

FEATURES

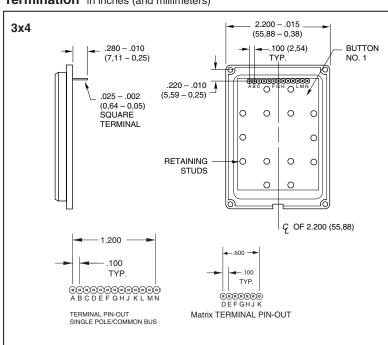
- 1/2" Button Centers
- Flange Mounted
- Top Surface or Sub Surface Mounting
- Snap-Dome Contact Provides Positive Feedback



DIMENSIONS in inches (and millimeters)



Termination in inches (and millimeters)



Code and Truth Table

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

| ۱2۷ | 3x4 | | | | | | | | | CC | DI | ES | | | | | | | | | |
|-----------------|-----|-------------------|---|----|------|----|---|--------|------------------------|----|----|----|---|---|---|---|---|---|---|---|---|
| | | | | Ма | atri | ix | | | Single Pole/Common Bus | | | | | | | | | | | | |
| | 1 | • | | | • | | | | • | | | | | | | | | | | | • |
| | 2 | | • | | • | | | | | • | | | | | | | | | | | • |
| Ιz | 3 | | | • | • | | | | | | • | | | | | | | | | | • |
| BUTTON LOCATION | 4 | • | | | | • | | \Box | | | L | • | L | | | | L | | | | • |
| ۱₹ | 5 | L | • | L | | • | | Ш | | | L | | • | | | | L | | | | • |
| ١ĕ | 6 | L | | • | | • | | | | | L | | L | • | | | L | | | | • |
| 🚽 | 7 | • | | | | | • | | L | | | | | | • | | | | | | • |
| اةِ | 8 | L | • | | | | • | | | | | | | | | • | | | | | • |
| ΙĒ | 9 | L | | • | | | • | | L | | | | | | | | • | | | | • |
| l 温 | 10 | • | | | | | | • | | | | | | | | | | • | | | • |
| | 11 | L | • | | | | | • | | | | | | | | | | | • | | • |
| | 12 | | | • | _ | | _ | • | | _ | | | | | | _ | | | | • | • |
| | | F | Ε | D | Κ | J | Н | G | J | Е | Α | Κ | F | В | L | G | С | М | Н | D | Ν |
| | | TERMINAL LOCATION | | | | | | | | | | | | | | | | | | | |



SERIES 86 Unsealed, .500" Centers,

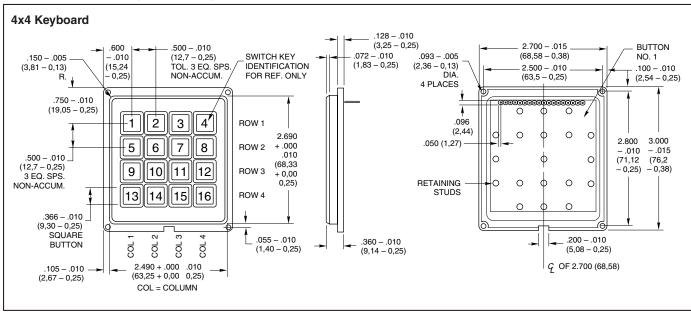
Flange Mounted

FEATURES

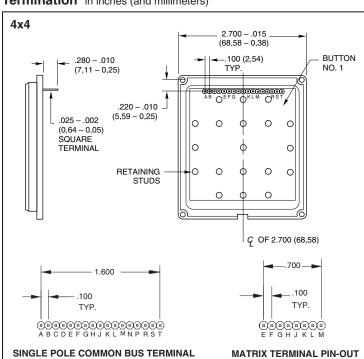
- 1/2" Button Centers
- Flange Mounted
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DIMENSIONS in inches (and millimeters)



Termination in inches (and millimeters)



Code and Truth Table

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

| 4> | ,1 | | CODES | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----|---|--------|---|----------|---|---|---|---|----|---|------------------------|---|---|---|---|-----|---|---|----------|---|---|---|---|---|---|---|
| Ľ | 777 | | Matrix | | | | | | | | | Single Pole/Common Bus | | | | | | | | | | | | | | | |
| | 1 | • | | | | • | | | | | • | | | | | | | | | | | | | | | | • |
| l | 2 | | • | | | • | | | | lL | | • | | | | | | | | | | | | | | | • |
| ۱_ | 3 | | | • | | • | | | | | | | • | | | | | | | | | | | | | | • |
| lδ | 4 | | | | • | • | | | | П | | | | • | | | | | | | | | | | | | • |
| ΙĒ | 5 | • | | | | | • | | | П | | | | | • | Г | | | | | | | | | | | • |
| اۃا | 6 | | • | | | | • | | | lΓ | | | Г | | | • | | | | | | | | | Г | | • |
| LOCATION | 7 | | | • | | Г | • | Г | | l٢ | | | | | Г | Г | • | | | | | | | | | | • |
| | 8 | | | | • | | • | Г | | 11 | | | | | | Г | | • | | | | | | | | | • |
| BUTTON | 9 | • | | П | | Г | | • | | 11 | | | Г | | П | Г | | | • | | | | | | Г | | • |
| 15 | 10 | | • | | | | | • | | 11 | | | | | | Г | | | | • | | | | | | | • |
| 🖺 | 11 | | | • | | T | | • | П | İŀ | | | Г | | Т | Г | | | t | | • | | | | | П | • |
| l | 12 | | | Ė | • | T | | • | | İŀ | | | | | Т | Г | | | | | Т | • | | | | П | • |
| l | 13 | • | | | | | | | • | l٢ | | | | | | Г | | | | | | | • | | | | • |
| l | 14 | Ė | • | Н | \vdash | H | t | Н | • | ۱ŀ | _ | | Т | | Н | Н | | - | t | \vdash | Н | t | Ė | • | Т | H | • |
| l | 15 | | | • | | Г | | Т | • | ۱ŀ | | | | | | Т | | | | | | | | Ė | • | П | • |
| l | 16 | Н | - | Ť | • | F | Г | Н | • | lŀ | | | H | | Н | Н | | H | H | | Т | t | Т | Т | Ė | • | • |
| | | Н | G | F | E | М | L | ĸ | J | | Р | J | E | Α | R | L | F | В | s | М | Н | С | Т | N | G | D | ĸ |
| | | Ė | | | _ | | _ | | | _ | _ | _ | _ | | _ | _ | CA. | | | | | | _ | | | | |



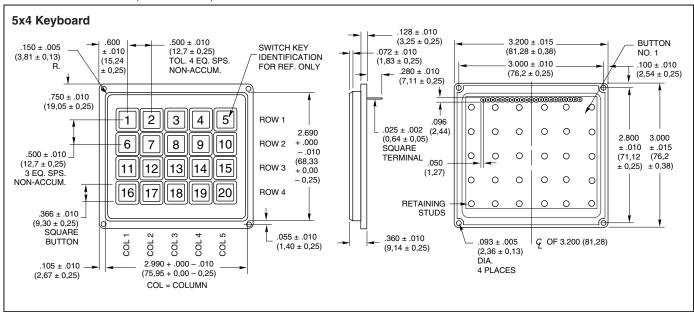
SERIES 86 Unsealed, .500" Centers, Flange Mounted

FEATURES

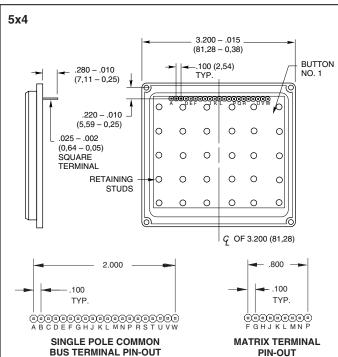
- 1/2" Button Centers
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DIMENSIONS in inches (and millimeters)

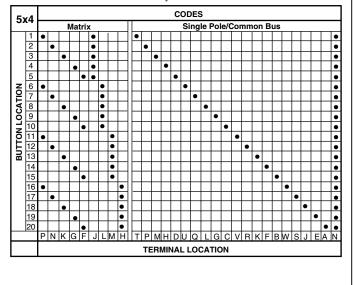


Termination in inches (and millimeters)



Code and Truth Table

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





SPECIFICATIONS

Rating Criteria

Rating at 24 Vdc: 10 milliamps, resistive Contact Resistance: Compatible with MOS,

TTL and DTL (10 ohms maximum)

Voltage Breakdown: 250 Vac between mutually

insulated parts

Life Expectancy: 3,000,000 operations per

button

Contact Bounce: Less than 4 milliseconds at

make, 10 milliseconds at break

Operating Temperature: -40°C to +80°C

Materials and Finishes

Housing: ABS polycarbonate, black

Buttons: ABS plastic, white. Legends are

black.

Snap-On-Cap: Clear polycarbonate

Contact Dome: Stainless steel, selectively

gold-plated

Terminals: Phosphor bronze

Operating Features

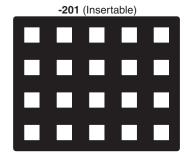
Button Travel: 0.015" nominal total travel **Typical Operating Force:** 350 grams

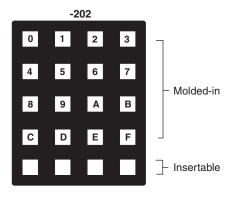
STANDARD LEGENDS

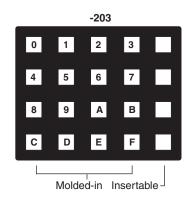
Insertable legend version (legend numbers -101, -001, -201 and row or column indicated in -202 and -203) has a removable cap. The revealed button surface can be legended by an insert or a dry transfer of a blank legend

insert. This surface can also be ink stamped by Grayhill in higher volume quantities. When the cap is replaced, the assembly extends approximately .015" (0,38 mm) above the surface. The legend sheet information follows the legend presentation. All other legends incorporate molded-in (two shot) legends with the exception of legend numbers -202 and -203. The blank legends or spaces in legends -202 and -203 are insertable legends, others are molded-in.







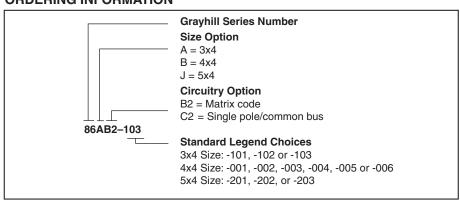


INSERTABLE LEGENDS

For use with -101, -001, -201, -202 and -203 legend options. Legends are die cut to fit button surface when cap is removed. Dry transfer legends offer some flexibility to customize the blank inserts included on the sheet of popular legend letters, words and symbols provided or on the insertable legends sheet.

| Description | Part No. |
|--|----------------------------------|
| Sheet of Legend Inserts | 87AC2046 |
| Dry Transfer Lettering, Small | 87-DT-2096-088 87-DT-2096-125 |
| Dry Transfer Lettering, Medium Dry Transfer Lettering, Large | 87-DT-2096-125 87-DT-2096-187 |

ORDERING INFORMATION



Available from your local Grayhill Distributor.
For prices and discounts, contact a local

Sales Office, an authorized local Distributor or Grayhill.