

Backlit with Self Adhesive Legends



- Backlit for Low Light Applications
- Waterproof Silicone Rubber
- Audible, Tactile Contacts
- Low Contact Resistance
- Optional RFI/EMI Shielding
- 3,000,000 Operations per Button



3 x 4 Keyboard

Technical drawing of a 3 x 4 keyboard. The drawing includes a front view on the left and a side view on the right. The front view shows a 3x4 grid of keys with dimensions: .750,3 EQ SPS., TOL.NON-ACCUM. (key spacing), .425 (key width), 3.100 .020 (key height), .750,2 EQ SPS., TOL.NON-ACCUM. (key spacing), .390 SQ. LEGEND INSERT AREA (key spacing), and 2.350 ± .020 (total width). The side view shows the keyboard's profile with dimensions: .290 REF (STYLE 1), .368 REF (STYLE 2) (total height), .025 .002 SQUARE TERMINAL PINS 7 PLACES (terminal pin height), .100 TYP. (terminal pin spacing), .525 (terminal pin width), #6-32 MTG STUD. 4 PLACES (mounting stud height), .750 (terminal pin width), 1.500 (terminal pin width), .800 (terminal pin width), .350 (terminal pin width), 1.650 (terminal pin width), .267 REF. (terminal pin width), .207 (terminal pin width), and .357 (terminal pin width). A callout 'LATEX 4 Keyboard' is present.

XY A B C D E F G
H I J K L M N O P Q R S T U V W X Y Z

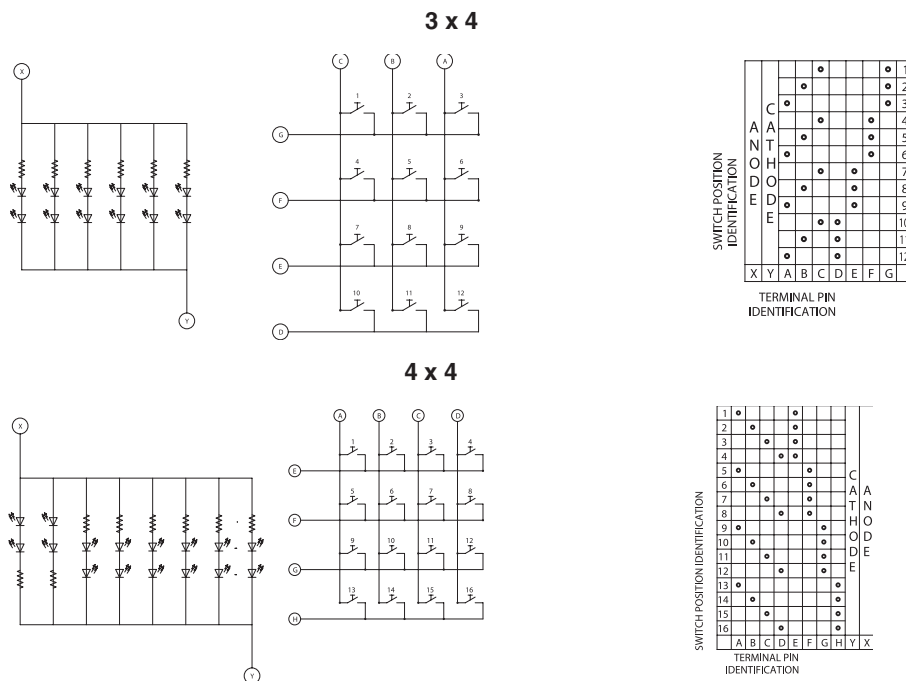
DETAIL A
TERMINAL PIN IDENTIFICATION
DETAIL
SCALE=1.5:1

Technical drawing of a 4 x 4 keyboard. The drawing includes a front view on the left and a side view on the right. The front view shows a 4x4 grid of keys with dimensions: .750,3 EQ SPS., TOL.NON-ACCUM. (key spacing), .425 (key width), 3.100 .020 (key height), .750,3 EQ SPS., TOL.NON-ACCUM. (key spacing), .390 SQ. LEGEND INSERT AREA (key spacing), and 3.100 ± .020 (total width). The side view shows the keyboard's profile with dimensions: .025 .002 SQ. TERMINAL PINS 10 PLCS. (terminal pin height), .100 TYP. (terminal pin spacing), .490 (terminal pin width), #6-32 MTG STUD. 6 PLACES (mounting stud height), .775 (terminal pin width), .290 REF (STYLE 1), .368 REF (STYLE 2) (total height), .750 (terminal pin width), 1.500 (terminal pin width), .267 REF. (terminal pin width), .207 (terminal pin width), .357 (terminal pin width), .310 (terminal pin width), .750 (terminal pin width), 1.125 (terminal pin width), 2.120 (terminal pin width), and 2.250 (terminal pin width). A callout 'LATEX 4 Keyboard' is present.

XY A B C D E F G
H I J K L M N O P Q R S T U V W X Y Z

DETAIL A
TERMINAL PIN IDENTIFICATION
DETAIL
SCALE=1.5:1

SCHEMATIC AND TRUTH TABLE



LED Color	Forward Voltage			Resistor (OHMS)	Typ. Current Consumption (With 5V Pwr. Supply)	
	Min.	Typ.	Max.		3 x 4	4 x 4
Red	-	1.95	2.40	43	155mA	205mA
Yellow/Green	-	1.95	2.40	43	155mA	205mA
Green	1.50	-	2.40	43	155mA	205mA
Orange	-	1.95	2.40	43	155mA	205mA

SPECIFICATIONS

Rating Criteria

Rating at 24 Vdc: - 10 milliamps resistive (max.)

Contact Bounce: 4 milliseconds maximum at make; 10 milliseconds, at break

Contact Resistance: 10 ohms maximum

Life Expectancy: 3 million operations/button

Insulation Resistance: >1,000 megohms

Operating Features

Pre-Travel: .030 inches minimum

Operating Force: 20 ± 4 ounces

Humidity: 0 to 98% (no condensation)

Materials and Finishes

Terminal Pins: Copper alloy CDA 725

PC Board: FR-4 glass cloth epoxy

Dome Retainer/Rear Seal Sheet: Polyester

Mounting Studs: Phosphor bronze

Optional Hex Nut: Stainless steel, passivated

Optional EMI Shield: Aluminum foil

Keypad: Silicone rubber

SELF-ADHESIVE LEGEND SHEETS

Each 8.5" x 11" legend sheet contains commonly used symbols, terms, alpha characters and 0-9 in helvetica bold type. Self-adhesive legends are clear urethane on a chrome mylar base. Adhesive is silicone/acrylic. Legends can be purchased in the following ways:

1. Entire legend sheets: Part numbers 84AC5012-1, -2, -3 OR -4.
2. Individual legends: Part numbers 84AC5012-0001, -0002 etc. (Individual legend pins are for groups of 10 legends each)
3. See Grayhill drawing 84AC5012-X for detailed information on available legends, sizes and fonts.

ORDERING INFORMATION

