

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# **SERIES 84R**

# **Rugged Keypad for Tough Environments**

### **FEATURES**

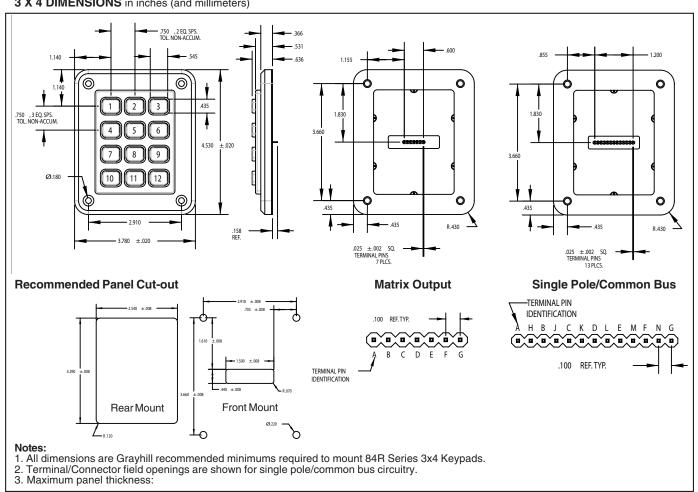
- Metal Keys and Housing
- Sealed for Use Outdoors
- Full Travel Keys Provide Positive Feedback
- Choice of Dome Contacts or Conductive Rubber Contacts
- Choice of Matrix Coding or Single Pole/Common Bus Coding
- · Available with an Optional Locking Connector
- Custom Engraved Legends Available

#### **DESCRIPTION**

Series 84R keypads work in harsh industrial environments where exposure to fine particulates compromises other keypads. The sealed openings and tough construction make this keypad perfect for outdoor use as well. Typical applications include security system code entry and product selection on outdoor terminals.

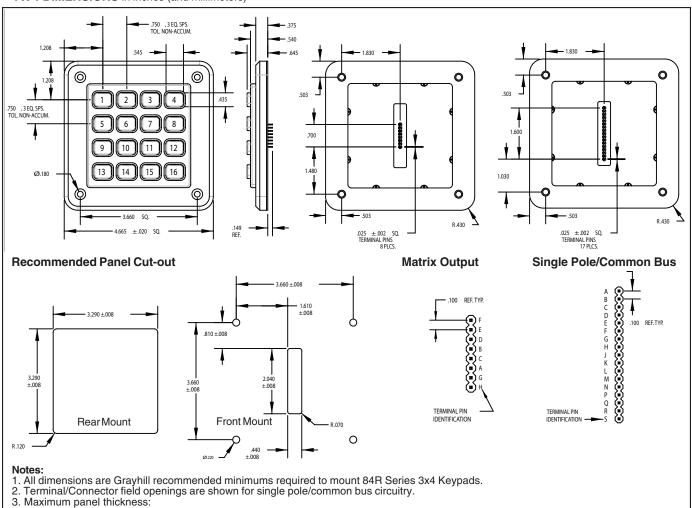


# 3 X 4 DIMENSIONS in inches (and millimeters)

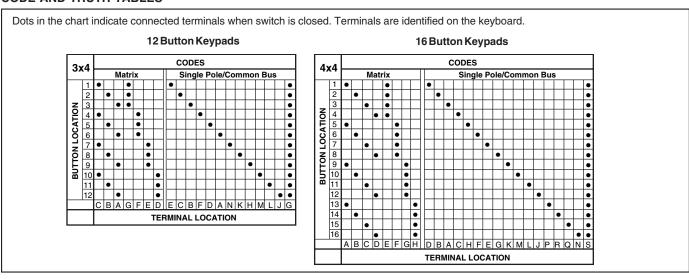




# 4 X 4 DIMENSIONS in inches (and millimeters)



# **CODE AND TRUTH TABLES**





#### **SPECIFICATIONS**

#### **Dome Contacts Rating Criteria**

Rating at 24 Vdc:10 mA resistive (max)
Contact Bounce: 4 milliseconds maximum at
make; 10 milliseconds maximum at break
Contact Resistance: 10 ohms maximum

Voltage Breakdown: 250 V

Life Expectancy: 3 million operations/button Insulation Resistance: 1000 MegOhms min.

### **Rubber Contacts Rating Criteria**

Rating at 24 Vdc: 5 mA for .5 seconds Contact Bounce: less than 12 milliseconds Contact Resistance: less than 100 ohms initial Voltage Breakdown: 250 VAC between components

Life Expectancy: 3 million operations/button Insulation Resistance: >10 Ohms @ 500 VDC

#### **Materials and Finishes**

PC Board: FR-4 Glass Cloth Epoxy
Dome Retainer/Rear Seal Sheet: Polyester

Housing/Buttons: Aluminum Alloy

Keypad/Gasket: Black Flourosilicone Rubber,

50 Durometer +5 **Domes:** Stainless Steel

**Connector/Header:** Glass Filled Polyester **Terminals:** Gold Plated, Phosphor Bronze

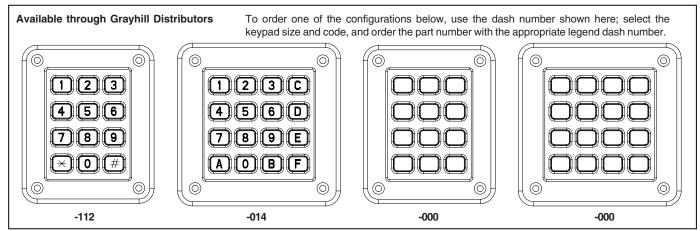
# **Dome Contacts Operating Features**

Pre-Travel: 0.030" minimum
Operating Force: 20 \*4 ounces
Operating Temperature: -55°C to 85°C
Humidity: 0 to 98% (no condensation)

#### **Rubber Contacts Operating Features**

Pre-Travel: 0.050" minimum
Operating Force: 175 ±40 grams
Operating Temperature: -55°C to 85°C
Humidity: 0 to 98% (no condensation)

### STANDARD LEGENDS



# **HEADER CONNECTORS**

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

# **AVAILABILITY**

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

# **CUSTOM LEGENDS**

Custom keytop graphics are available. Contact a local Sales Office or Grayhill directly to enquire about minimum requirements and costs.

#### **ORDERING INFORMATION**

