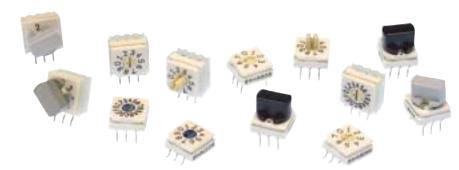
### SERIES 94H Binary Coded

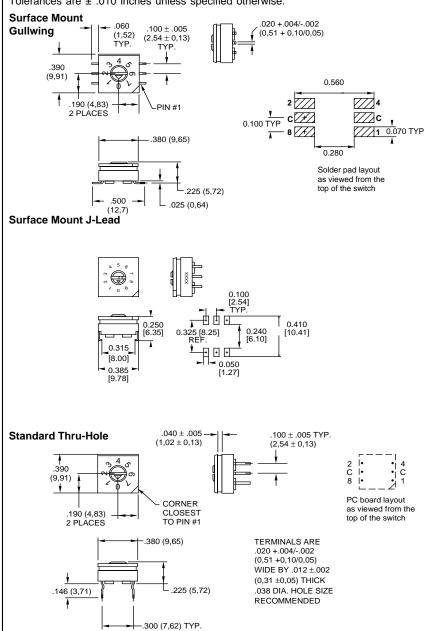
Grayhill





### DIMENSIONS In inches (and millimeters)

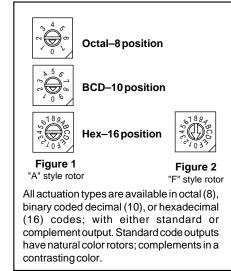
Tolerances are ± .010 inches unless specified otherwise.



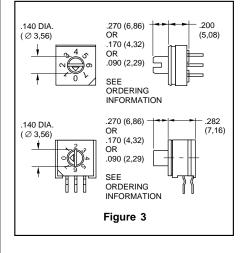
### FEATURES

- Sealed Construction; No Tape Seal Required
- Surface Mount or Thru-Hole Style
- Tube or Tape and Reel Packaging
- Octal, BCD, and Hexadecimal Code
- In Standard or Complement
- Standard and Right Angle Mount
- Flush or Extended Actuators
- Gold-Plated Contacts

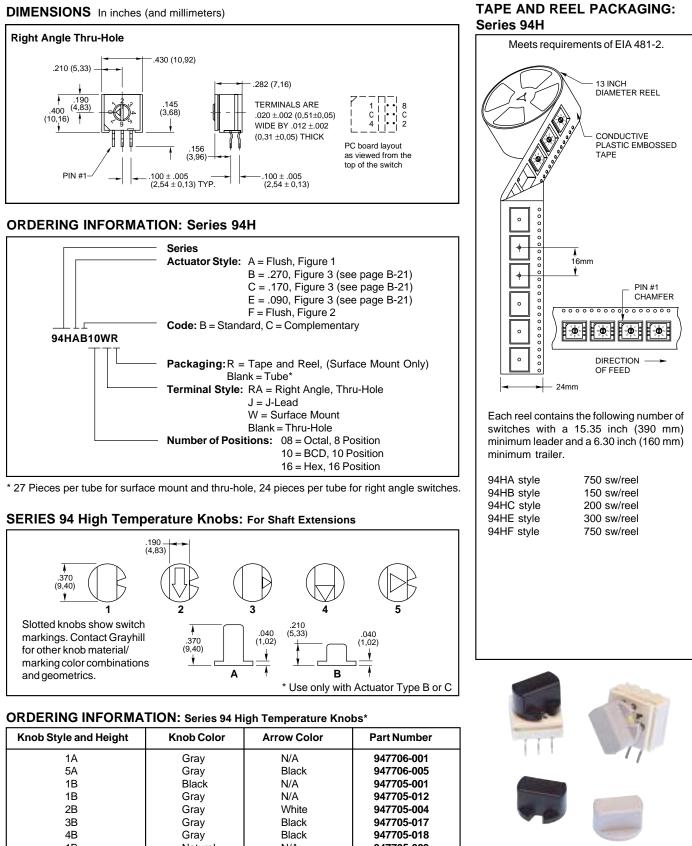
## ACTUATOR STYLES



## **EXTENDED ACTUATOR TYPES**







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

\*Ordered as a separate item.

Knob Style and Height	Knob Color	Arrow Color	Part Number
1A	Gray	N/A	947706-001
5A	Gray	Black	947706-005
1B	Black	N/A	947705-001
1B	Gray	N/A	947705-012
2B	Gray	White	947705-004
3B	Gray	Black	947705-017
4B	Gray	Black	947705-018
1B	Natural	N/A	947705-009
4B	Black	White	947705-010
5B	Gray	Black	947705-019



# SERIES 94R

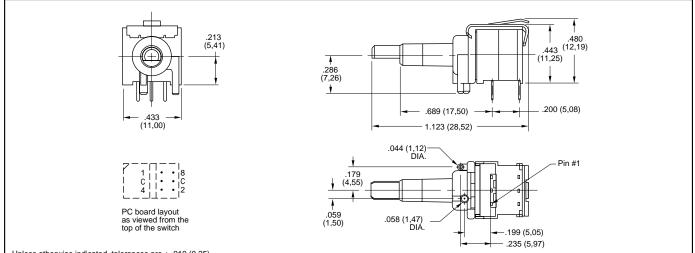
Economical, Binary Coded

### **FEATURES**

- 10,000 Cycles of Operation
- Gold-Plated Contacts
- Sealed Contact System
- Right Angle Mount
- Octal, BCD & Hexadecimal Codes
- Standard or Complement



### DIMENSIONS In inches (and millimeters)



Unless otherwise indicated, tolerances are ± .010 (0,25)

### SPECIFICATIONS: Series 94H and 94R Electrical Ratings

# Make-and-break Current Rating: 30 mA at 30 Vdc for 10,000 cycles of operation.

**Carrying Current Rating:** 100 mA at 50 Vdc **Contact Resistance:** 50 mohms maximum initially (measured at 10 mA, 50 mVdc). 150 mohms maximum after life.

**Insulation Resistance:**(measured at 100 Vdc across open switch contacts)

Initial: 5000 Mohms minimum. After Life: 1000 Mohms minimum.

Dielectric Strength: (measured across open switch contacts) Initial: 500 Vac RMS minimum. After Life: 250 Vac RMS

#### **Mechanical Ratings**

Mechanical Life: 10,000 cycles of operation. One cycle is a rotation through all positions and a complete return through all positions. Mechanical Shock: 1000g's, 0.5 mS, half sine per MIL-STD-202F, Method 213, Test Condition E. Vibration Resistance: 10-2000 Hz at 15G or 0.060" double amplitude per MIL-STD-202F, Method 204, Test Condition B. Operational Torque: 2 to 6 inch-ounces initially

and 1.2 inch-ounces minimum after life.

### **Environmental Ratings**

**Operating Temperature Range:** -40° to +85°C. **Storage Temperature Range:** -40° to +85°C. **Moisture Resistance:** 240 hours with temperature cycling and polarization. Passes insulation resistance and dielectric strength per MIL-STD-202F, Method 106 following exposure.

#### **Materials and Finishes**

Rotor and Switch Body: Plastic (UL94V-O) Contact Material: Copper alloy plated. 30 microinches minimum gold over 50 microinches minimum nickel.

**Shorting Member:** Copper alloy plated. 30 microinches minimum gold over 50 microinches minimum nickel.

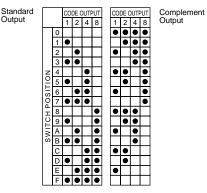
**Terminals:** Copper alloy plated. 100 microinches minimum 90/10 tin lead solder over 50 microinches minimum nickel. **Internal O-ring:** Rubber BUNA-N

#### **Soldering Information**

**Soldering Temperature:** 250° C for 10 seconds maximum.

**Cleaning:** Acceptable solutions include 1-1-1 Trichlorenthane, Freon (TF, TE, or TMS), Isopropyl Alcohol and detergent (140°F maximum). Solutions which are not recommended include Acetone, Methylene Chloride, and Freon TMC.

### CODE & TRUTH TABLES: Series 94H and 94R



Dot indicates terminal to common connection. All switches are continuous rotation.

Octal and Octal Complement outputs are 0 thru 7 positions.

BCD and BCD Complement outputs are 0 thru 9 positions.

Hexadecimal and Hexadecimal Complement outputs are 0 thru F positions.

Standard codes have natural color rotors; complements have rotors in a contrasting color.

# Grayhill

### **ORDERING INFORMATION: Series 94R**

Continuous Rotation Versions				
Code	No. of	Standard Code	Complement	
	Positions	Part Number	Part Number	
Octal	8	94RB08C	94RC08C	
BCD	10	94RB10C	94RC10C	
Hexadecimal	16	94RB16C	94RC16C	
Rotational Stop Versions*				
Code	No. of	Standard Code	Complement	
	Positions	Part Number	Part Number	
Hexadecimal	16	94RB16F	94RC16F	

\* Consult Grayhill for 8 or 10 position

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Largest Supplier of Electrical and Electronic Components

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