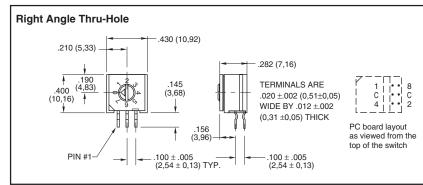


Grayhill

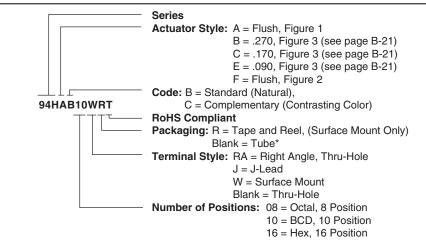
DIP 20

DIMENSIONS In inches (and millimeters)

rayhill

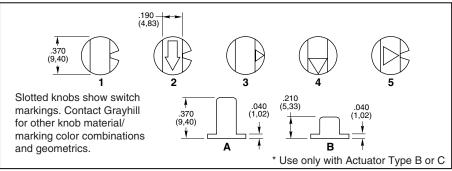


ORDERING INFORMATION: Series 94H



* 27 Pieces per tube for surface mount and thru-hole, 24 pieces per tube for right angle switches.

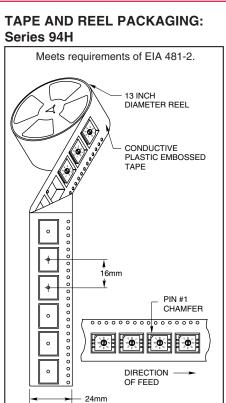
SERIES 94 High Temperature Knobs: For Shaft Extensions



ORDERING INFORMATION: Series 94 High Temperature Knobs*

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

*Ordered as a separate item. B = Standard (Natural), C = Complementary (Conrasting Color).



Each reel contains the following number of switches with a 15.35 inch (390 mm) minimum leader and a 6.30 inch (160 mm) minimum trailer.

750 sw/reel
150 sw/reel
200 sw/reel
300 sw/reel
750 sw/reel



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

DIP

21



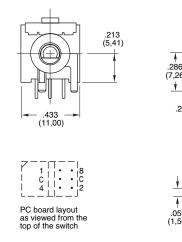
SERIES 94R

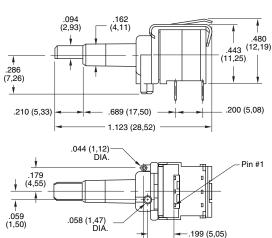
Economical, Binary Coded

FEATURES

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

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

21

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.

.235 (5.97)

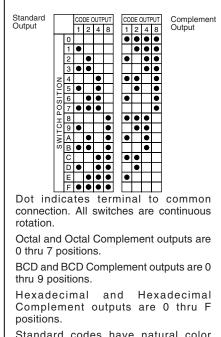
Materials and Finishes

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, matte tin plated over nickel barrier.

CODE & TRUTH TABLES: Series 94H and 94R



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

Internal O-ring: Rubber BUNA-N Soldering Information

Soldering Temperature: 260° C 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.

ORDERING INFORMATION: Series 94R

Continuous Rotation Versions				
Code	No. of	Standard Code	Complement	
	Positions	Part Number	Part Number	
Octal	8	94RB08CT	94RC08CT	
BCD	10	94RB10CT	94RC10CT	
Hexadecimal	16	94RB16CT	94RC16CT	
Rotational Stop Versions*				
Code	No. of	Standard Code	Complement	
	Positions	Part Number	Part Number	
Hexadecimal	16	94RB16FT	94RC16FT	

* Consult Grayhill for 8 or 10 position

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