

### SERIES 25L Hex, Gray and Quadrature Code

### **FEATURES**

- · Price Competitive to Similar Designs
- · Quality Construction and Contact Materials
- Multiple Code and Indexing Choices
- 100,000 Life Cycles
- · Less than 1.0" Square
- Manufactured to ISO 9001 Standards

# **DIMENSIONS** in inches (and millimeters) .925 ± .010

(23,50 ± 0,25)

.865 ± .015

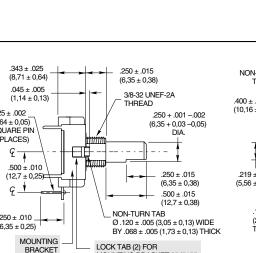
(21,97 ± 0,38)

.865 +

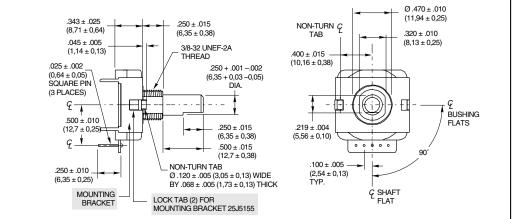
.015 (21,97±

0,38)

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## **TRUTH TABLES**

1.020 ±

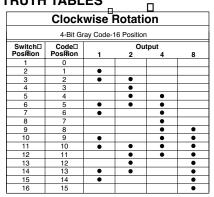
.010

(25,91 ±

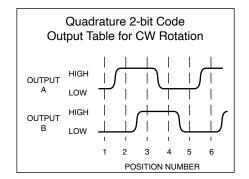
0,25)

.590 ± .010

(14,97 ± 0,25)

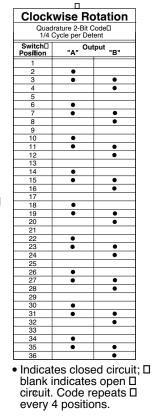


 Indicates closed circuit; blank indicates□ open circuit.



	4-Bit Binary (	Code Hex	adecimal-	6 Position	
SwitchD Position	Code Position	1	2 Output 4		8
10	00				
20	10	•			
30	20		•		
40	30	•	•		
50	40			•	
60	50	•		•	
70	60		•	•	
80	70	•	•	•	
90	80				•
100	90	•			٠
110	10□		•		•
120	110	•	•		•
130	120			•	•
140	130	•		•	٠
150	140		•	•	٠
160	150	•	•	•	٠

 Indicates closed circuit; blank indicates□ open circuit.





#### SPECIFICATIONS Electrical Ratings

Switching Loads: 1.5 mA at 115 Vac, resistive; 150 mA at 14 Vdc, resistive

Current Carrying Capacity: 250 mA maximum at 28 Vdc, resistive load

**Contact Resistance:** 75 m $\Omega$ , typical

**Insulation Resistance:** 1000 m $\Omega$  minimum between terminals

Voltage Breakdown: 1000 Vac minimum between terminals

**Life Expectancy:** 100,000 cycles of operation at rated loads. One cycle of operation is a rotation through all of the active positions and a return to the starting position.

#### **Mechanical Ratings**

Rotational Torque: 2 to 6 in-oz

**Operating Temperature Range:** -40 C° to +85 C° **Storage Temperature Range:** -65 C° to +85 C° **Continuous Rotation:** All standard switches are continuous rotation. Desired stop locations supplied upon request.

Anti-Rotation Device: Integral non-turn tab, flatted bushing, .375" diameter, .320 double "D" across flats.

**Termination:** Standard is PC style, parallel to shaft, facing rear. Options include PC, parallel to shaft, facing front.

Panel Mounting Torque: 10 in-lbs maximum

# Materials and Finishes

**Bushing/Housing and Shaft/Rotor:** Reinforced thermoplastic

Detent Ball: Stainless steel, nickel-plated

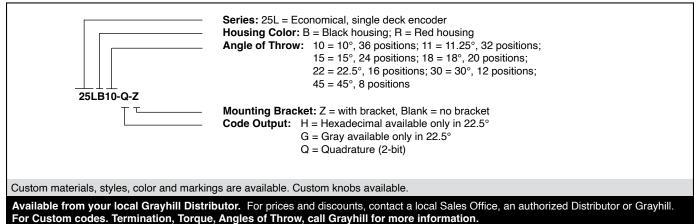
Detent Spring: Tinned music wire

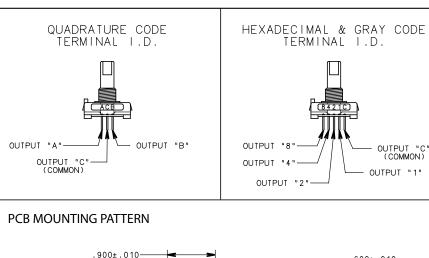
**Contacts:** Beryllium copper, gold plate over nickel

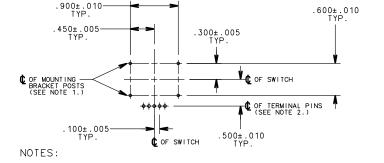
**Terminals:** Copper alloy, #725, 100% tin plate over nickel plate

Output Board: FR-4, copper/nickel-plated Mounting Nut: Brass, tin/zinc-plated hex nut Mounting Bracket: Stainless Steel, tin-plated

## **ORDERING INFORMATION**







1. MOUNTING BRACKET POSTS: .035±.002 WIDE X .020±.004 THICK (4 PLACES).

2. TERMINAL PINS: .025±.002 SQUARE (3 OR 5 PLACES).

