

### 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

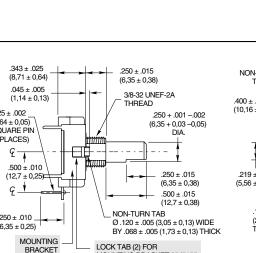
(21,97 ± 0,38)

.865 +

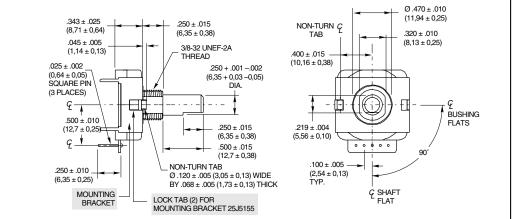
.015 (21,97±

0,38)

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## **TRUTH TABLES**

1.020 ±

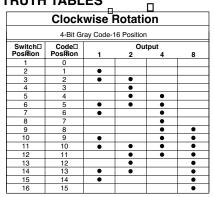
.010

(25,91 ±

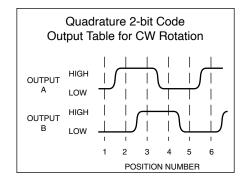
0,25)

.590 ± .010

(14,97 ± 0,25)

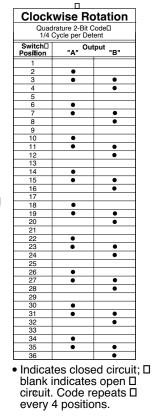


 Indicates closed circuit; blank indicates□ open circuit.



|                     | 4-Bit Binary (   | Code Hex | adecimal-  | 6 Position |   |
|---------------------|------------------|----------|------------|------------|---|
| SwitchD<br>Position | Code<br>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

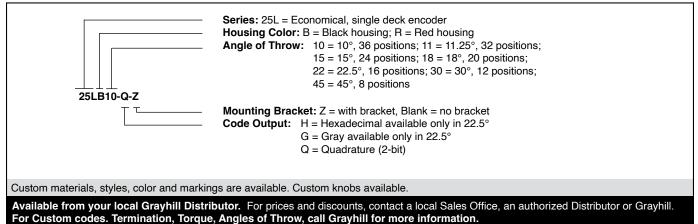
Detent Spring: Tinned music wire

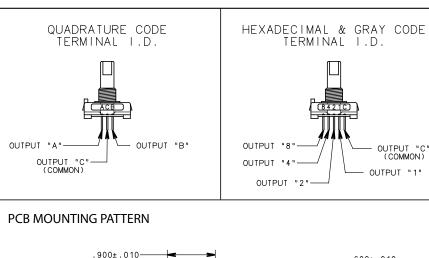
**Contacts:** Beryllium copper, gold plate over nickel

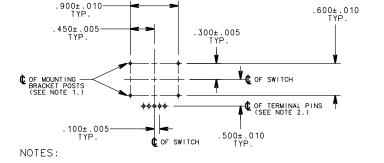
**Terminals:** Copper alloy, #725, 100% tin plate over nickel plate

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).

