SERIES 25
Multi-Deck

FEATURES
- Multiple Code and Indexing Choices
- Reliability Tested to Listed Specifications
- Less than 1.0” Square
- Termination Choices
- Panel and Shaft Seal Option
- Manufactured to ISO 9001 and Military Standards
- Custom Configurations Available

DIMENSIONS in inches (and millimeters)
**SPECIFICATIONS**

**Electrical Ratings**
- **Switching Loads:** 150 mA at 120 Vac, resistive; 150 mA at 28 Vdc, resistive
- **Current Carrying Capacity:** 250 mA at 28 Vdc, resistive
- **Contact Resistance:** 75 mΩ max. after life
- **Insulation Resistance:** 1000 mΩ minimum between terminals and shaft
- **Voltage Breakdown:** 1000 Vac minimum between terminals and shaft
- **Life Expectancy:** 50,000 cycles at rated loads
- **Contacts:** Shorting

**Mechanical Ratings**
- **Stop Strength:** 10 in-lbs minimum
- **Rotational Torque:** 4-20 in-oz, dependent on the number of decks
- **Operating Temperature Range:** -65°C to +85°C
- **Non-Turn Device:** Flattened mounting bushing, .375" dia. x .320"
- **Package Size:** .865" square
- **Termination:** PC terminals, .100" on center. Decks are .200" apart
- **Hardware:** Hex nut and lockwasher supplied

**Materials and Finishes**
- **Bushing:** Die cast zinc alloy, tin-zinc plated
- **Mounting Hardware:** plated brass
- **Decks, Deck Separators, End Plate:** Thermoplastic
- **Contacts and Terminals:** Gold, silver, nickel-plated beryllium copper
- **Shaft, Stop Blades:** Stainless Steel
- **Detent Balls:** Steel, nickel-plated
- **Rivets:** Brass, zinc-plated

**ORDERING INFORMATION**

- **Series 25:** Multi-deck
- **Shaft size:** B = ¼" diameter shaft
- **Sealed or non-sealed:** S = Shaft and panel seal; No letter = no seal
- **Terminal structure:** P = PC, perpendicular to shaft; R = PC, rear facing (one deck only); F = PC, front facing (one deck only).
- **Angle of throw (determines the maximum number of positions):**
  - 10 = 10°, 36 positions;
  - 11 = 11.25°, 32 positions;
  - 12 = 12°, 30 positions;
  - 15 = 15°, 24 positions;
  - 18 = 18°, 20 positions;
  - 22 = 22.5°, 16 positions;
  - 30 = 30°, 12 positions;
  - 36 = 36°, 10 positions;
  - 45 = 45°, 8 positions;
  - 60 = 60°, 6 positions;
  - 90 = 90°, 4 positions.

- **Stop arrangement:** For switches with maximum positions, add C for continuous rotation; add F for stop between first and last. No notation required for less than maximum positions.
- **Number of positions:** Maximum is dependent on the angle of throw. Minimum is two.
- **Number of decks:** One through four possible.
- **Code output:**
  - B = Binary (contact Grayhill for availability)
  - Q = Quadrature
  - G = Gray (contact Grayhill for availability)

Specials include ¹/₈" diameter shaft, custom angles of throw for binary, binary complement and gray code outputs. Contact Grayhill Sales for availability.

**Control knobs available.**

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