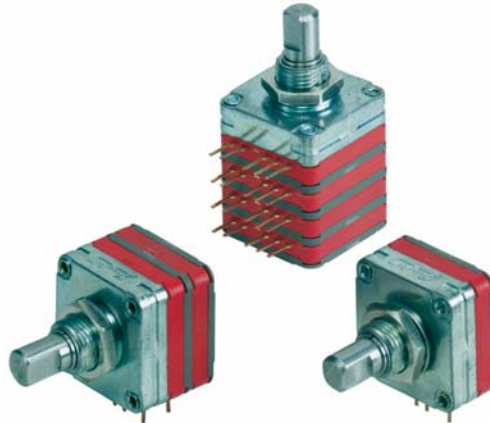


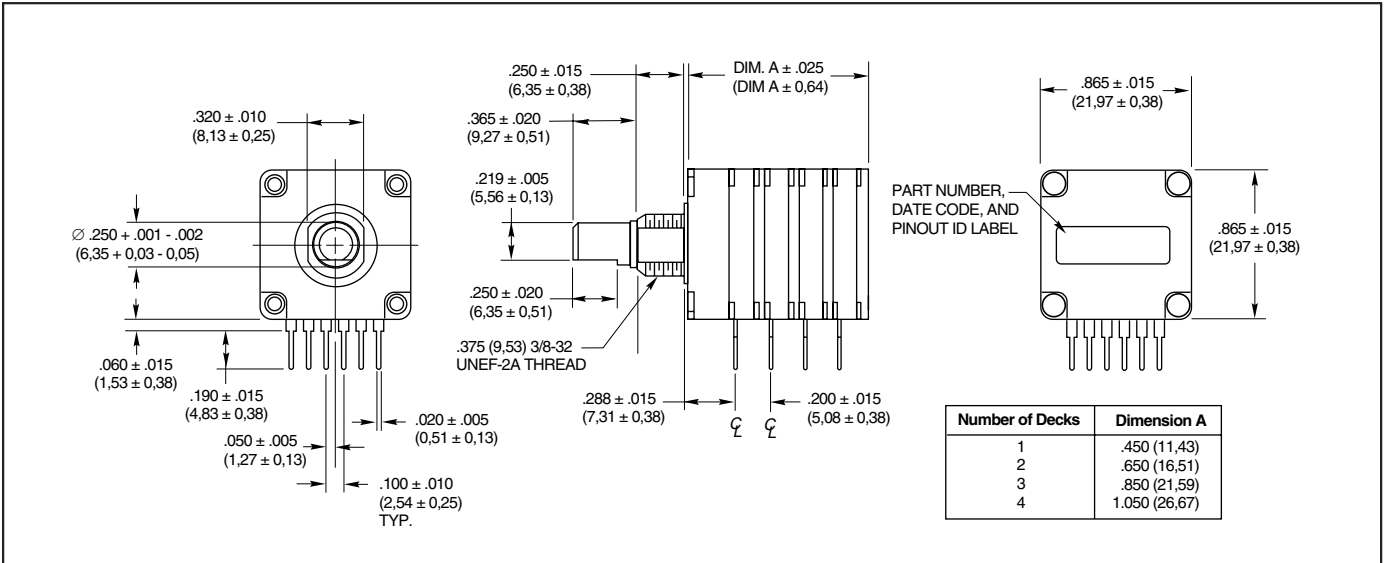
SERIES 25
Multi-Deck

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)



Optical and Mechanical Encoders

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 maximum 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

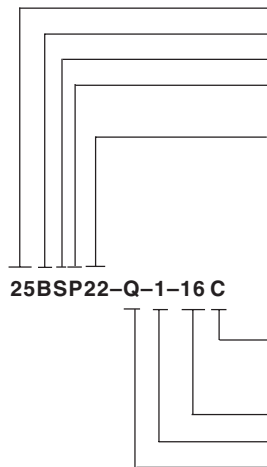
Mechanical Ratings

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: Flatted mounting bushing, .375" dia. x .320"
Package Size: .865" square
Termination: PC terminals, .100" on center. Decks are .200" apart.

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



25BSP22-Q-1-16 C

Series 25: Multi-deck
Shaft size: B = 1/4" 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; 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 available in 22.5°
 Q = Quadrature
 G = Gray available in 22.5°

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, see page I-57.

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