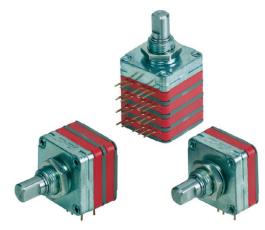


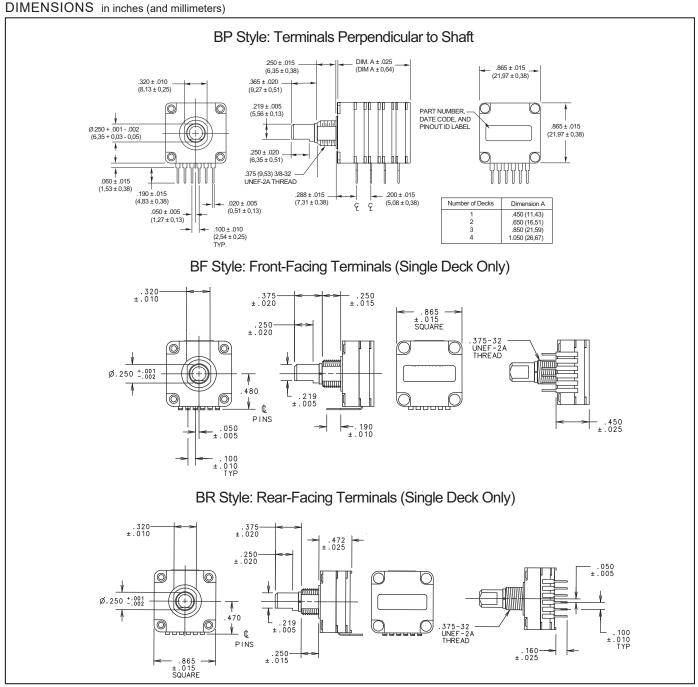
Mechanical Encoders

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





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 m Ω max. after life Insulation Resistance: 1000 m Ω 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

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:

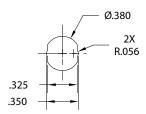
Thermoplastic

Contacts and Terminals: Gold, silver, nickel-

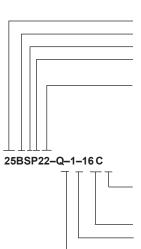
plated beryllium copper

Shaft, Stop Blades: Stainless Steel Detent Balls: Steel, nickel-plated Rivets: Brass, zinc-plated

RECOMMENDED PANEL CUTOUT



ORDERING INFORMATION



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):

 $10 = 10^{\circ}$, 36 positions; $11 = 11.25^{\circ}$, 32 positions; $12 = 12^{\circ}$, 30 positions;

 $15 = 15^{\circ}$, 24 positions; $18 = 18^{\circ}$, 20 positions; $22 = 22.5^{\circ}$, 16 positions;

 $30 = 30^{\circ}$, 12 positions; $36 = 36^{\circ}$, 10 positions; $45 = 45^{\circ}$, 8 positions; $60 = 60^{\circ}$, 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.