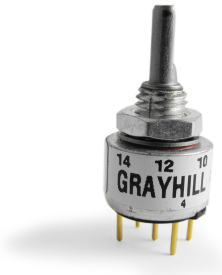
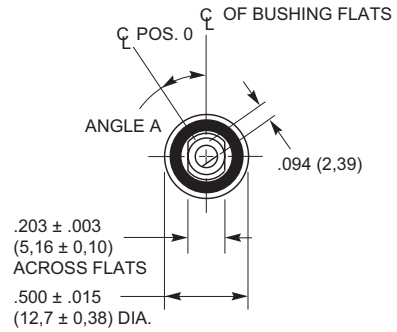
SERIES 26
Binary and Gray Code

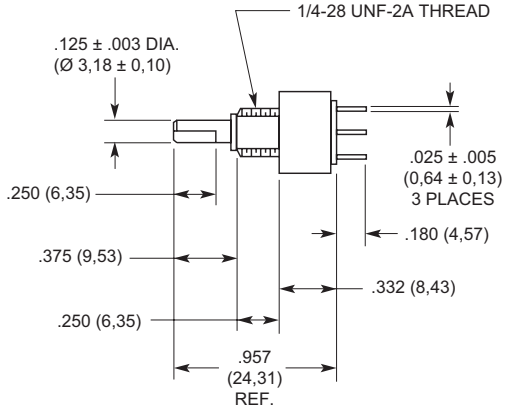
AVAILABLE CODES
- Hexadecimal
- Octal
- BCD (Adjusted)
- Quadrative
- Custom (4-Bit, 16 position maximum)
- RoHS Compliant

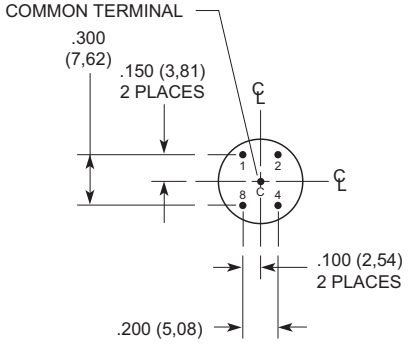


DIMENSIONS in inches (and millimeters)



Maximum Switch Positions	Angle A
8	67.5°
16	33.75°





Unless specified otherwise, all tolerances are ± .015 (0,38)

Grayhill part number and date code marked on label. Customer part number marked on request.

SPECIFICATIONS

Electrical Ratings
Rated: 25,000 cycles with logic compatible loads. Make and break 200 mA.
Contact Resistance: 500 milliohms maximum (less than 100 milliohms initially)
Insulation Resistance: 1000 megohms minimum (10,000 megohms initially)
Dielectric Strength: 250 Vac minimum

Materials and Finishes
Panel Seal: Silicone Rubber
Shaft Seal: Fluorosilicone
Mounting Nut (mounting hardware–one per switch): Brass, tin/zinc-plated
Internal Tooth Lockwasher (mounting hardware): Steel,tin/zinc-plated
Detent Balls: Carbon steel, nickel-plated
Detent Spring: Pretinned music wire
Detent Rotor: Thermoplastic
Shaft, Stop Arm and Stop Pins: Stainless steel
Bushing: Zamak II tin/zinc alloy, zinc-plated
Switch Base: Diallyl phthalate
Printed Circuit Board: NEMA Grade FR-4.
Terminals: Brass, gold-plated over nickel plate
Contacts: Copper alloy, gold-plated over nickel plate

Additional Characteristics
Rotational Torque: 4 to 8 oz-in initial
Vibration Resistance: 10 to 55 Hz at 0.060" double amplitude; no damage and no contact openings per MIL-STD-202, Method 201A
Shock Resistance: Passes medium requirement MIL-DTL-3786 (MIL-STD-202, Method 213)
Stop Strength: 5 in-lbs minimum

Relative Humidity: 90-95% at 40°C for 240 hours (MIL-STD-202 Method 103, Test Condition A)
Thermal Cycling: per MIL-STD-202, Method 107, Test Condition A, with an exception of -65°C as the low temperature

Shaft and Panel Seal
All switches are provided with a shaft and panel seal.

OPTIONS

Adjustable Stop Switches
The switch may have continuous rotation, or be adjusted to limit the rotation. The panel seal ring can be removed to expose the stop pin holes on the front of the switch. Two stop pins and panel seal o-ring are supplied with the switch. One or both may be used to limit the rotation as desired.

Custom encoders with options such as custom code output, 1/4" shaft diameter, factory set stops and longer shaft terminal lengths are

CODE AND TRUTH TABLE

Switch Position	Code Position	BCD Output*				Gray Output*			
		1	2	4	8	1	2	4	8
1	0								
2	1	●				●			
3	2		●			●	●		
4	3	●	●				●		
5	4			●			●	●	
6	5	●		●		●	●	●	
7	6		●	●		●		●	
8	7	●	●	●				●	
9	8				●			●	●
10	9	●			●	●		●	●
11	10		●		●	●	●	●	●
12	11	●	●		●		●	●	●
13	12			●	●		●		●
14	13	●		●	●	●	●		●
15	14		●	●	●	●			●
16	15	●	●	●	●				●

*Dot indicates terminal tied to common.