



SERIES 56

0.5" Diameter, 200mA, .355" Behind Panel



FEATURES

 Requires Minimum Distance Behind the Panel

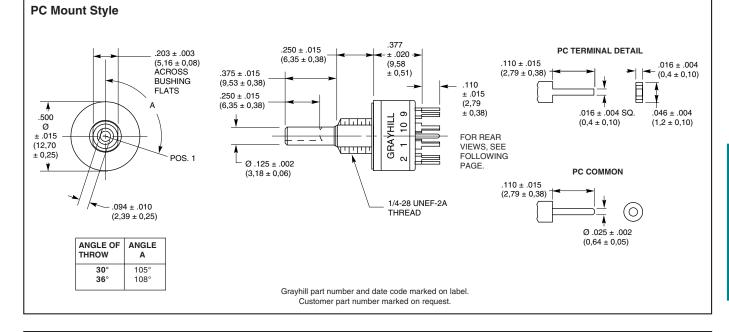
 Adjustable Stop Types Provide Prototypes Immediately

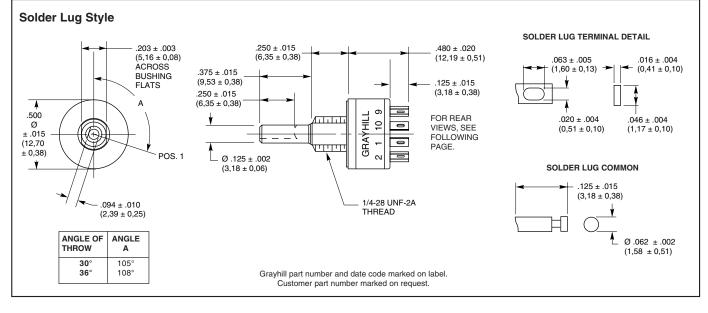
- Industrial Quality, Economically Priced
- RoHS Compliant



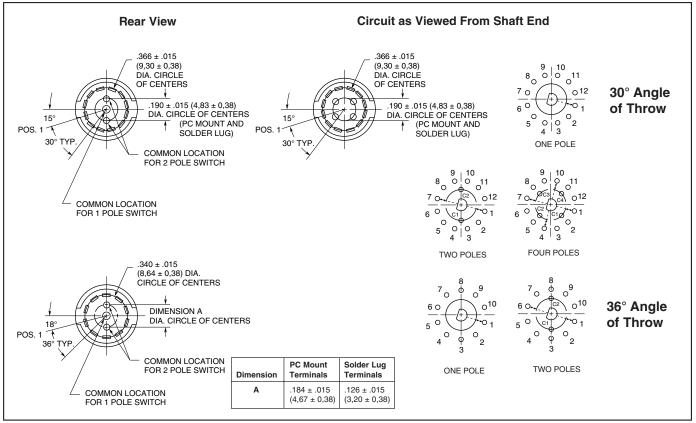


DIMENSIONS In inches (and millimeters)





Rotary 11

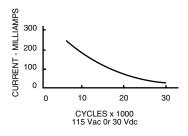


CIRCUIT DIAGRAMS AND REAR VIEWS: PC Mountable AND Solder Lug Terminals

SPECIFICATIONS

Electrical Ratings

Chart shown for non-shorting (break before make) contacts, resistive load.



One cycle is 360° rotation clockwise and 360° return. The data for the curve was measured at sea level, 25° C and 68% relative humidity with the life limiting criteria which follows.

Contact Resistance: 100 milliohms maximum, (15 milliohms initially).

Insulation Resistance: 10,000 Mohms minimum between mutually insulated parts (50,000 Mohms initially).

Voltage Breakdown: 600 Vac minimum between mutually insulated parts at standard atmospheric pressure.

Life Expectancy: As determined from the loadlife curve for the current to be switched. Contact GRAYHILL for more information if any of the following is true: the life limiting criteria are more critical than those listed; longer operation is required; a larger make and break current is required; the operating environment includes elevated temperatures or reduced pressures. **Contact Carry Rating:** Switch will carry 6 amperes continuously with a maximum contact temperature rise of 20°C.

Additional Characteristics

Contact Type and Forces: Shorting or nonshorting wiping contacts with over 25 grams of contact force.

Shaft Flat Orientation: Flat opposite contacting position of pole number one (see circuit diagrams). Terminals: Switches have the full circle of terminals, regardless of number of active positions. Stop Strength: 7.5 lb-in. minimum

Rotational Torque: 3.5 to 9 oz-in. (21-53 mNm), depending on the number of poles. Bushing Mounting: Required for switches with stops, and recommended for switches without stops.

Meets MIL-S-3786 for:

High and medium shock; Vibration (10 to 2,000 Hz); Thermal shock (-65° to 85 ° C); Salt spray; Explosion; Stop strength (7.5 in-lbs. minimum (.85 N-m); Terminal strength; Sealed styles withstand water pressure of 15 PSI minimum (103 KPa) without leakage.

Materials and Finishes

Housing: Zinc die cast, tin zinc plated Mounting Nut: Brass, zinc plated Lockwasher: Spring steel, zinc plated Panel Seal: Silicone rubber Shaft and Stop Arm: Zinc die cast Retaining Ring: 302 Stainless steel, passivated Shaft Seal: Silicone rubber Stop Pins: 303 Stainless steel, passivated Detent Rotor: Molded thermoplastic Detent Spring: Tinned music wire Detent Balls: Steel, nickel-plated Contact Spring: Stainless steel, passivated Rotor Contact: Brass, silver over nickel plate Common Ring: Brass, gold over silver over

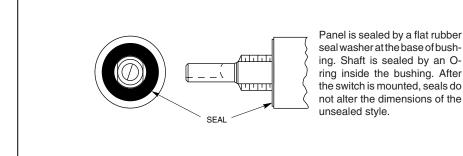
nickel plate **Terminals:** Brass, gold over silver over nickel plate

Switch Base: Molded thermoset plastic Mounting Hardware: One mounting nut .089" thick by .375" across flats and one internal tooth lockwasher are supplied with the switch.

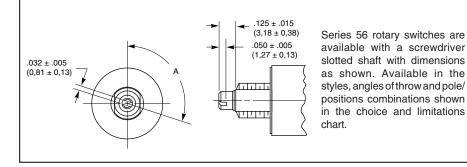
Rotary



SHAFT AND PANEL SEAL: Style S

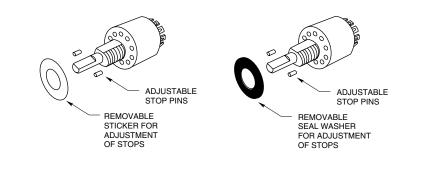


SCREWDRIVER SLOTTED SHAFT: Option



ADJUSTABLE STOP SWITCHES

Two stop pins and an adhesive backed sticker or seal washer are provided. Sticker is temporarily removed to locate stop pins as desired to limit the shaft rotation. All dimensions are identical to the fixed stop switch counterpart.



SUGGESTED ADJUSTABLE STOP SUBSTITUTION GUIDE

Fixed Stop Adjustable Stop Style Style Equivalent		Fixed Stop Style	Adjustable Stop Style Equivalent		
56A	56D	56B	56BD		
56S	56SD	56BS	56BSD		
56P	56DP	56BP	56BDP		
56SP	56SDP	56BSP	56BSDP		



Shaft and Panel Seal

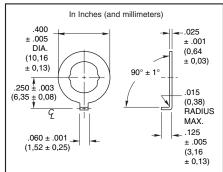


Screwdriver Slotted Shaft



ble

ACCESSORY: Non-Turn Washer



Part No. 50J1066

Cut round hole for the bushing and for the non-turn tab. Washer fits the double D bushing flats. Washer is sold only when accompanied by an order for a like number of switches. Washer is 302 stainless steel.



CHOICES AND LIMITATIONS: Series 56

- A = Standard, 1/8" Shaft
- B = Screwdriver Slot Shaft
- D = Adjustable Stop (Adj. Stop)

P = PC Mount Terminals

S = Shaft/Panel Seal (S/P Seal)

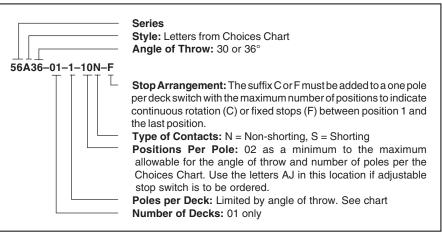
	FEATURES				Screwdriver	Angle	Number	Number Of	Shorting Or
Style Designation	Solder Lug Terminals	PC Mount Terminals	Shaft/Panel Seal	Adjustable Stops ¹	Slotted Shaft Equivalent	Of Throw	Of Poles	Positions Per Pole	Non-Shorting Contacts
А	Х				В				
S	x		x		BS		1	02 thru 12	N or S
Р		х			BP	30°	2	02 thru 06	N or S
SP		х	x		BSP		4	02 or 03	N or S
D	x			х	BD				
SD	x		x	х	BSD		1	02 thru 10	N or S
DP		x		x	BDP	36°	2	02 thru 05	N or S
SDP		x	x	х	BSDP				

¹ Adjustable stop versions allow selection of 2 positions to the maximum number of positions per pole.

STANDARD OPTIONS

Available from your local Grayhill Distributor For prices and discounts, contact a local Sales Office, an authorized local Distributor, or Grayhill. Not available thru Distributors when Intermixing of shorting and non-shorting contacts. Contact Grayhill.

ORDERING INFORMATION



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