

SERIES 56

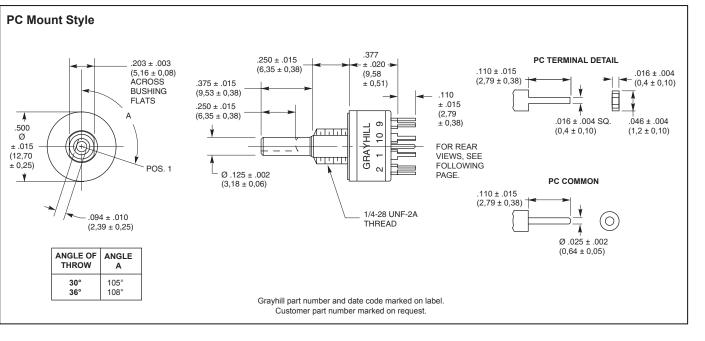
0.5" Diameter, 200mA, .355" Behind Panel

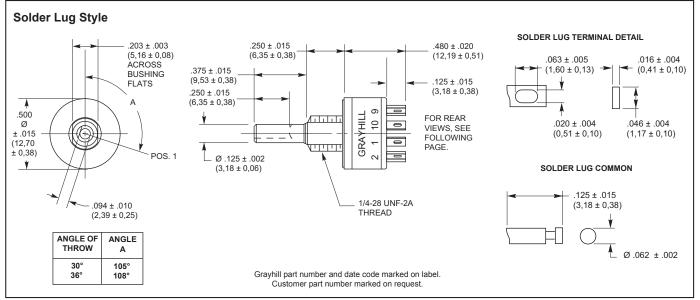
FEATURES

- Requires Minimum Distance Behind
 the Panel
- Adjustable Stop Types Provide Prototypes Immediately
- Industrial Quality, Economically
 Priced
- RoHS Compliant

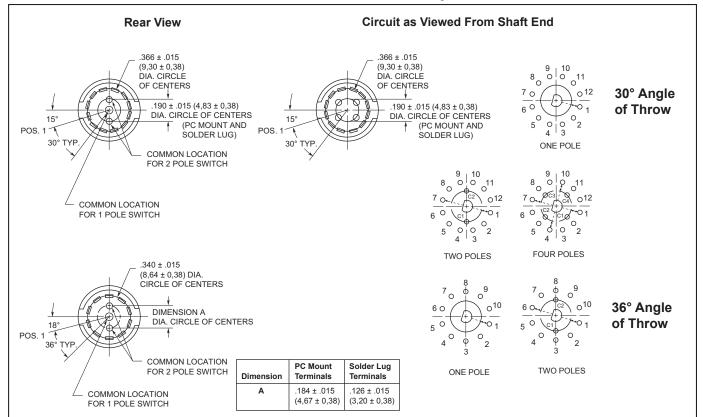
DIMENSIONS in inches (and millimeters)







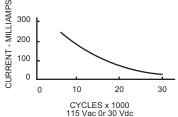




CIRCUIT DIAGRAMS AND REAR VIEWS: PC Mountable AND Solder Lug Terminals

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 load-life 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 mN-m), depending on the number of poles. **Bushing Mounting:** Required for switches with stops, and recommended for switches without stops.

Meets MIL-DTL-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 or Sulfamate Nickel Plated Mounting Nut: Brass. Tin Zinc or Sulfamate Nickel Plated Lockwasher: Spring steel, zinc plated Panel Seal: Silicone rubber Shaft and Stop Arm: Machined, 303 Stainless Steel, or Cold Formed, 430 Stainless Steel Retaining Ring: Stainless steel Shaft Seal: Fluorosilicone rubber Stop Pins: Stainless steel Detent Rotor: Molded thermoplastic

Detent Spring: Music wire

Detent Delles Cheel mickel

Detent Balls: Steel, nickel-plated

Contact Spring: Stainless steel Rotor Contact: Brass or zinc alloy, silver over

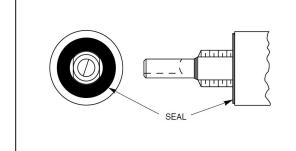
nickel plate

Common Ring: Brass, gold over silver over nickel plate

Terminals: Brass, gold over silver over nickel plate

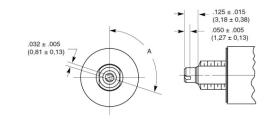


SHAFT AND PANEL SEAL: Style S



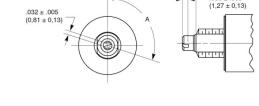
Panel is sealed by a flat rubber seal washer at the base of bushing. Shaft is sealed by an O-ring inside the bushing. After the switch is mounted, seals do not alter the dimensions of the unsealed style.

SCREWDRIVER SLOTTED SHAFT: Option



Series 56 rotary switches are available with a screwdriver slotted shaft with dimensions as shown. Available in the styles. angles of throw and pole/positions combinations shown in the choice and limitations chart.

ADJUSTABLE STOP SWITCHES



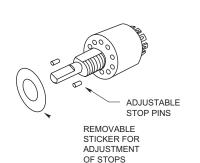
the shaft rotation. All dimensions are identical

to the fixed stop switch counterpart.

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





SUGGESTED ADJUSTABLE STOP SUBSTITUTION GUIDE

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



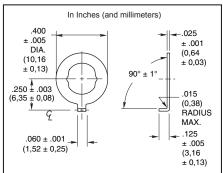
Shaft and Panel Seal



Screwdriver Slotted Shaft



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)

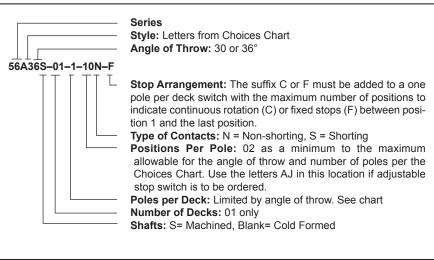
	FEATURES			Screwdriver	Angle	Number	Number Of	Shorting Or
Solder Lug Terminals	PC Mount Terminals	Shaft/Panel Seal	Adjustable Stops ¹	Slotted Shaft Equivalent	Of	Of Poles	Positions Per Pole	Non-Shorting Contacts
Х				В				
Х		X		BS		1	02 thru 12	N or S
	Х			BP	30°	2	02 thru 06	N or S
	Х	Х		BSPD		4	02 or 03	N or S
		х	BD					
Х		X	Х	BSD		4	02 three 10	NerC
	Х		Х	BDP	36°	2	02 thru 05	N or S N or S
	Х	Х	Х	BSDP		-		
	Terminals X X	Solder Lug Terminals PC Mount Terminals X X X X X X X X X X X X X X X X X X X X	Solder Lug TerminalsPC Mount TerminalsShaft/Panel SealXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Solder Lug TerminalsPC Mount TerminalsShaft/Panel SealAdjustable Stops1XXXXXXXXXXXXXXXBDXXXXXXXXXXXX	Solder Lug TerminalsPC Mount TerminalsShaft/Panel SealAdjustable Stops1Slotted Shaft EquivalentXBXXBSBSXXBPXXBDSDDXXBDXXXXBDDXXXBDDXXXBDDXXXBDD	Solder Lug TerminalsPC Mount TerminalsShaft/Panel SealAdjustable 	Solder Lug TerminalsPC Mount TerminalsShaft/Panel SealAdjustable Stops1Slotted Shaft EquivalentOf Of ThrowOf PolesXXB1XXBS1XXBP30°2XXBD4XXBD1XXXBSD1XXXBDP36°1	Solder Lug TerminalsPC Mount TerminalsShaft/Panel SealAdjustable Stops1Slotted Shaft EquivalentOf ThrowOf PolesPositions Per PoleXXBB102 thru 12XXBP30°202 thru 06XXBDB402 or 03XXBD102 thru 10XXBD102 thru 10XXBD36°102 thru 10XXBDP36°202 thru 10

¹Adjustable 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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 56A36-01-1-06N
 56P30-01-4-03N
 57M22-04-1-13N
 57M22-09A16N
 60A18-4-040C
 60A18-4-040S
 60AR18-8-060C
 61A16-060
 61A16

 100
 61RS256
 M3786/13-0034
 M3786/20-026
 M3786/35-024
 M3786/36-0562
 M3786/4-0338
 M3786/4-0353
 M3786/4-0652

 M3786/4-3003
 M3786/4-3042
 M3786/4-3267
 M3786/4-5338
 M3786/4-5386
 M3786/4-5877
 M3786/4-6145
 62A15-02-040C

 62A22-01-040S
 62C1111-01-060S
 62C2211-01-060C
 62C2211-02-060C
 62H2222-H9-P
 62HS22-H9-040S
 62HS22-H9-050S
 62M15-M2

 040CH
 62N22-040CH
 62S11-L0-060S
 62S22-H9-030C
 62S22-M9-030C
 62T22-L7-040C
 63KS100
 63R100
 70G-ODC5MA

 70L-OAC-L
 70LRCK16-48WP
 71AD30-03-1-AJN
 71MB30-02-2-05S
 73G-IV1
 78B10
 84S-AB2-112