

Keylock Rotary Switches

SERIES 58 Single Deck, Antistatic

LOCK FEATURES

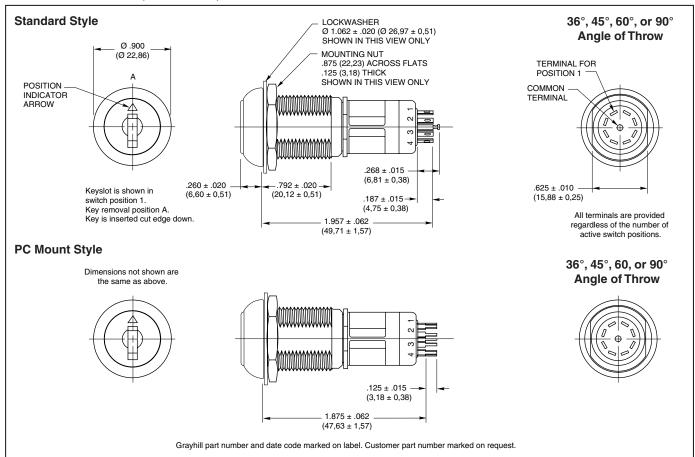
- Minimum Space Behind Panel
- 15,000 Vdc Static Protection
- 5 Tumbler-Plate Security
- In-Panel Key Recoding

SWITCH FEATURES

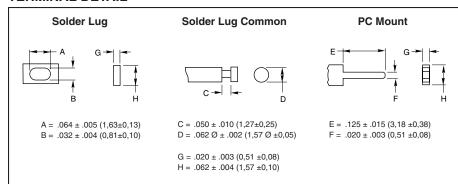
- Economical
- Solder Lug or PC Mount
- 36°, 45°, 60°, or 90° Throws
- 1 or 2 Poles Per Switch
- Up to 10 Positions for 1 Pole
- 200 mA for 25,000 Cycles



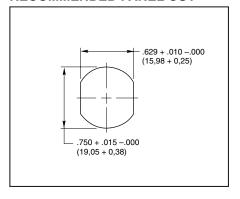
DIMENSIONS in inches (and millimeters)



TERMINAL DETAIL



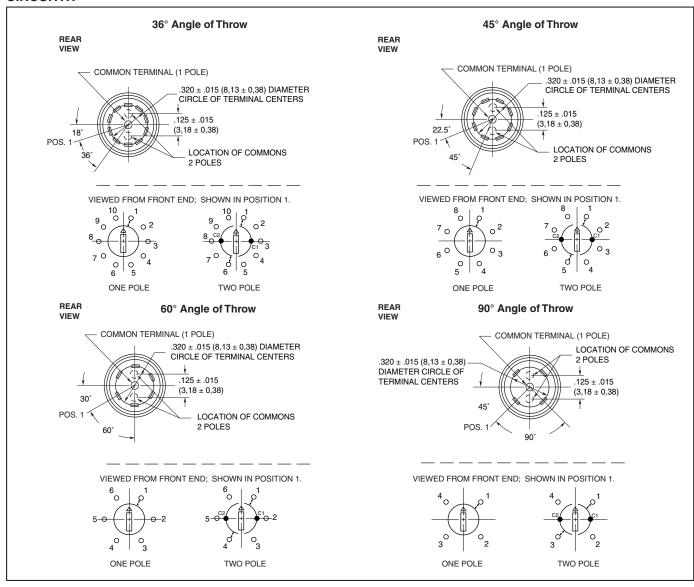
RECOMMENDED PANEL CUT



Keylock Rotary Switches



CIRCUITRY



LOCK SPECIFICATIONS

General Characteristics

Mounting: By bushing, nut and lockwasher **Keying:** All locks keyed alike except by

special order

Orientation of Keylock Switch: Lock flats on both sides with key upright (cut side down) in position 1.

Key Removals:

36° Throw Switch At every position or

At 0° & 180°

45° Throw Switch At every position or

At 0°, 90°, 180°, 270°

60° Throw Switch At every position or

At 0°, 180°

 90° Throw Switch At every position or

At 0°, 180°

Optional pulls Contact Grayhill

Materials & Finishes

Kevs: Brass: 2 supplied

Lock Barrel & Plug: Zinc, clear chromate

Lockwasher: Steel, tin zinc plated **Mounting Nut:** Steel, nickel-plated

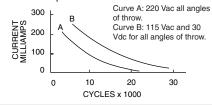
Tumbler Plates: Brass

SWITCH SPECIFICATIONS

Electrical Characteristics

Chart is shown for non-shorting contacts and resistive load and for the life limiting criteria indicated below. The data for the curve was measured at sea level, 25°C and 68% relative humidity. Contact Grayhill for more information

if any of the following is true: life limiting criteria are more critical than those listed; more cycles of operation are required; a larger make and break current is required; the operating environment includes elevated temperatures or reduced pressures.





Keylock Rotary Switches

SWITCH SPECIFICATIONS Continued

Contact Resistance:

Initially: less than 10 m Ω End of life: less than 50 m Ω

Insulation Resistance: (Between mutually

insulated parts)

 $\begin{array}{ll} \mbox{Initially:} & 50,000 \ \mbox{M}\Omega \\ \mbox{Minimum:} & 10,000 \ \mbox{M}\Omega \end{array}$

Breakdown Voltage: (Between mutually insulated parts) more than 600 Vac Life Expectancy: Per chart; cycle is 1 rotation thru all active positions plus a full

return.

Carry Current: 6A; maximum temperature

rise 20°C

Anti-Static Voltage: Anti-static types tested to withstand 15,000 Vdc

Mechanical Characteristics

Switching Mode: Shorting (make before break) or non-shorting (break before make) as limited

by the Choices chart

Type of Contact: Wiping

Number of Terminals: All switches are provided with the full circle of terminals regardless of the

number of active positions

Stop Strength: 1.70 Nm maximum (15.0 in-

lbs)

Switching Torque: 8 to 16 in-ozs

Materials and Finishes Switch Base: Thermoset plastic Switch Housing: Nylon

Detent Rotor: Nylon Detent Balls: Steel, nickel-plated Detent Springs, and Contact Springs:

Stainless steel

Common Ring: Brass, gold plate over silver

plate

Terminals: Brass, gold over silver and nickel

plate

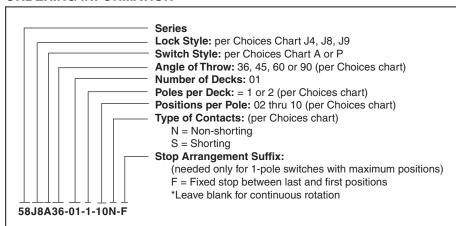
Rotor Contact: Precious metal, gold alloy

CHOICES AND LIMITATIONS

Lock Style and Description*	Switch Style and Description	Angle of Throw	No. Of Decks	Poles/ Deck	Positions Per Pole**	Shorting or Non-Shrtg.
	Series 58J Switches					
J4: Standard–Key pulls at Position 1 and at 90 Degree Increments	A = Standard, Solder LugsP = Standard, PC Mount	45°	1	1 2	02 to 08 02 to 04	N or S N or S
J8: Standard–Key Pulls at Each Position	A = Standard, Solder LugsP = Standard, PC Mount	36°	1	1 2	02 to 10 02 to 05	N or S N or S
		45°	1	1 2	02 to 08 02 to 04	N or S N or S
		90°	1	1 2	02 to 04 02	N N
J9: Standard–Key Pulls at Position 1 and at 180 Degrees	A = Standard, Solder LugsP = Standard, PC Mount	36°	1	1 2	02 to 10 02 to 05	N or S N or S
		45°	1	1 2	02 to 08 02 to 04	N or S N or S
		60°	1	1 2	02 to 06 02 to 03	N N
		90°	1	1 2	02 to 04 02	N N

^{*}Standard Keylock has anti-static protection. All keylock versions available without anti-static protection, with a reduced overall body length. Contact Grayhill for more information.

ORDERING INFORMATION



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

^{**}For single pole switches with maximum positions, specify continuous rotation or fixed stop when ordering.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Grayhill:

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        58J9A60-01C03N
        58J9A90-01B03N
        58J9P36-01B09N
        58J8P45-01B05N
        58J9P36-01B08N
        58J9A36-01B05S

        58J9A45-01C02N
        58J8P45-01B04N
        58J9A45-01C03S
        58J8A36-01C03N
        58J8A36-01B10N
        58J8A36-01B05N

        58J8A45-01A08N
        58J4A45-01A08N
        58J8P90-01B02N
        58J8A45-01B04N
        58J8A36-01B03N
        58J8P36-01C03S

        58J8A36-01C04N
        58J8P36-01C05N
        58J8A45-01B07N
        58J9A90-01B02N
        58J4A45-01C02N
        58J9A36-01C03S

        58J8A90-01B02N
        58J8A36-01C02N
        58J8A45-01B08S
        58J9A90-01C02N
        58J8A90-01A04N
        58J9A60-01B03N

        58J9A36-01B05N
        58J9A36-01B03N
        58J4A45-01C03S
        58J8A45-01C04N
        58J9A45-01B05N
        58J8A45-01C02N

        58J8A45-01B02N
        58J9A36-01B03N
        58J1007
        58J8A36-01B06N
        58J8A90-01C02N
        58J8A36-01B02N
        58J8A36-01B02N
        58J9A96-01B02N
        58J9A96-01B02N
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