

**SERIES 58**  
**Single Deck, Antistatic**

## LOCK FEATURES

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

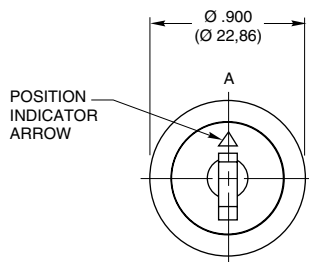
## SWITCH FEATURES

- 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

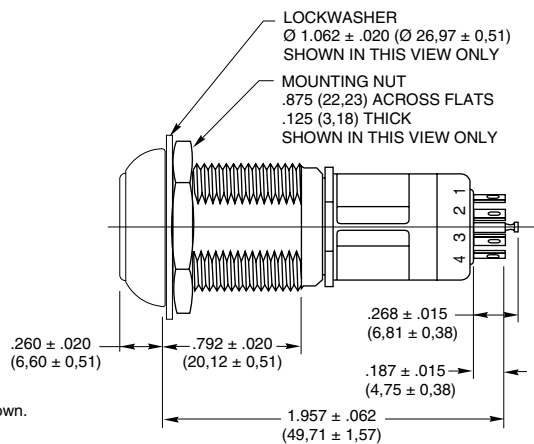


**DIMENSIONS** in inches (and millimeters)

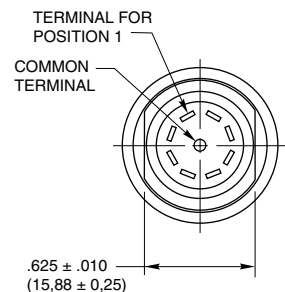
## Standard Style



Keyslot is shown in  
switch position 1.  
Key removal position A.  
Key is inserted cut edge down.



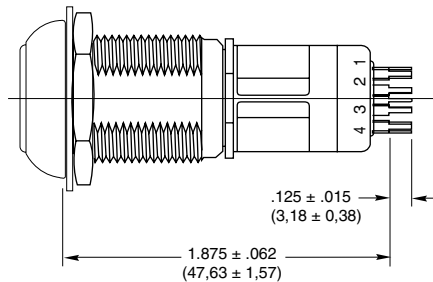
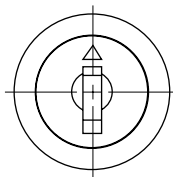
**36°, 45°, 60°, or 90°  
Angle of Throw**



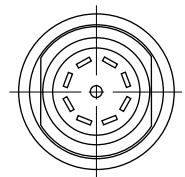
All terminals are provided regardless of the number of active switch positions.

### PC Mount Style

Dimensions not shown are the same as above.



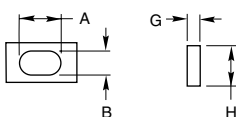
**36°, 45°, 60, or 90°  
Angle of Throw**



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

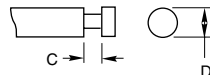
## TERMINAL DETAIL

### Solder Lug



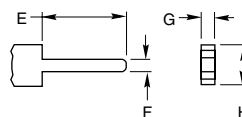
A = .064 ± .005 (1,63±0,13)  
B = .032 ± .004 (0,81±0,10)

## Solder Lug Common

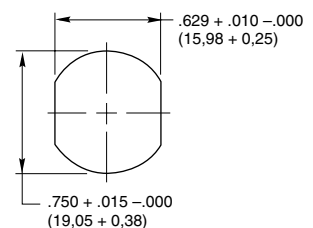


C = .050 ± .010 (1,27±0,25)  
D = .062 Ø ± .002 (1,57 Ø ±0,05)  
G = .020 ± .003 (0,51 ±0,08)  
H = .062 ± .004 (1,57 ±0,10)

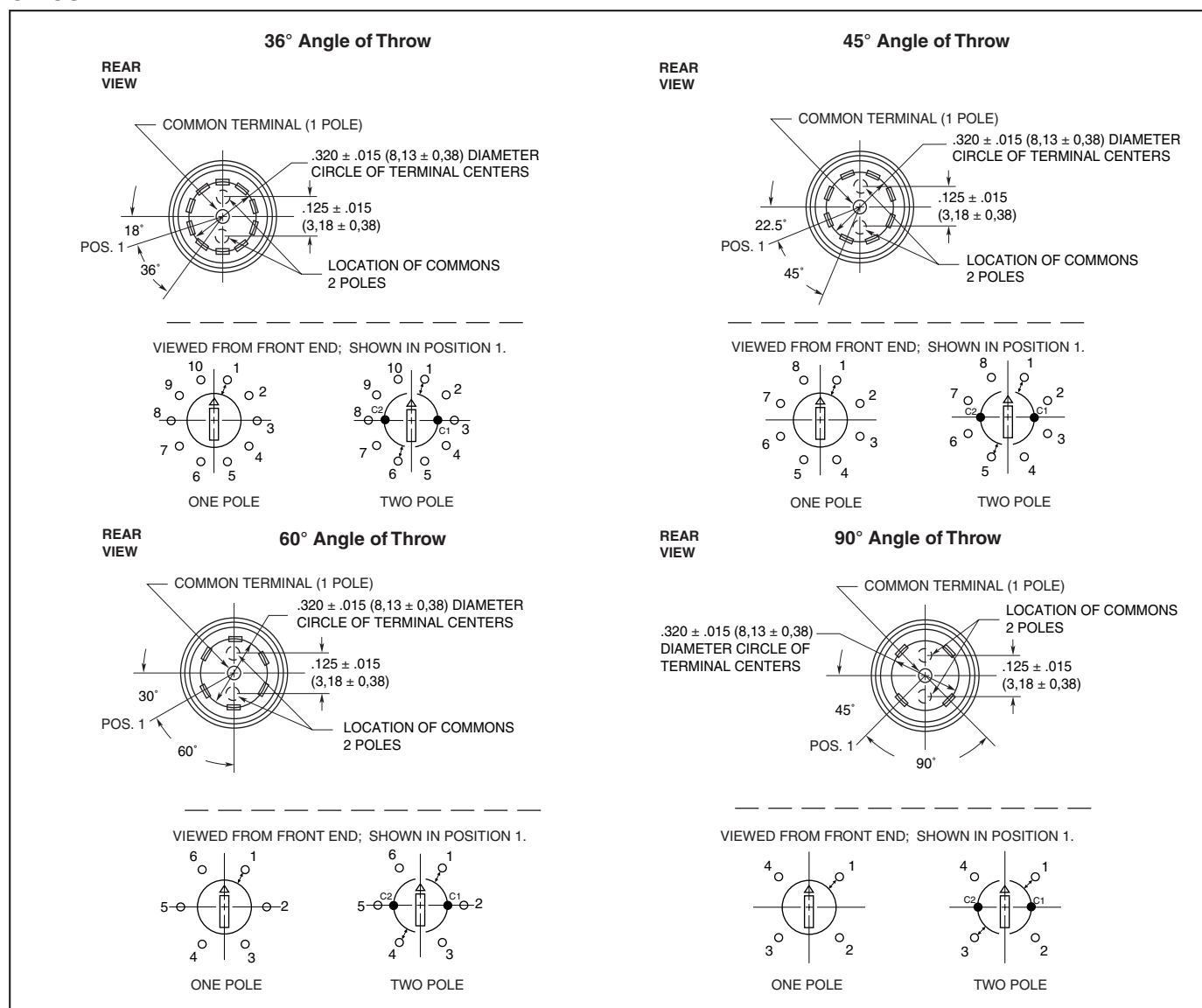
## PC Mount


$$E = .125 \pm .015 (3,18 \pm 0,38)$$
$$F = .020 \pm .003 (0,51 \pm 0,08)$$

## RECOMMENDED PANEL CUT



## 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<br>At 0° & 180°           |
| 45° Throw Switch | At every position or<br>At 0°, 90°, 180°, 270° |
| 60° Throw Switch | At every position or<br>At 0°, 180°            |
| 90° Throw Switch | At every position or<br>At 0°, 180°            |

*Optional pulls      Contact Grayhill*

## Materials &amp; Finishes

**Keys:** Brass; 2 supplied

**Lock Barrel & Plug:** Zinc, clear chromate

**Lockwasher:** Steel, tin zinc plated

**Mounting Nut:** Steel, nickel-plated

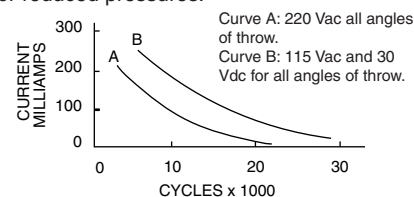
**Tumbler Plates:** Brass

## 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.



## SWITCH SPECIFICATIONS *Continued*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact Resistance:</b><br>Initially: less than 10 mΩ<br>End of life: less than 50 mΩ<br><b>Insulation Resistance:</b> (Between mutually insulated parts)<br>Initially: 50,000 MΩ<br>Minimum: 10,000 MΩ<br><b>Breakdown Voltage:</b> (Between mutually insulated parts) more than 600 Vac<br><b>Life Expectancy:</b> Per chart; cycle is 1 rotation thru all active positions plus a full return.<br><b>Carry Current:</b> 6A; maximum temperature rise 20°C | <b>Anti-Static Voltage:</b> Anti-static types tested to withstand 15,000 Vdc<br><br><b>Mechanical Characteristics</b><br><b>Switching Mode:</b> Shorting (make before break) or non-shorting (break before make) as limited by the Choices chart<br><b>Type of Contact:</b> Wiping<br><b>Number of Terminals:</b> All switches are provided with the full circle of terminals regardless of the number of active positions<br><b>Stop Strength:</b> 1.70 Nm maximum (15.0 in-lbs)<br><b>Switching Torque:</b> 8 to 16 in-ozs | <b>Materials and Finishes</b><br><b>Switch Base:</b> Thermoset plastic<br><b>Switch Housing:</b> Nylon<br><b>Detent Rotor:</b> Nylon<br><b>Detent Balls:</b> Steel, nickel-plated<br><b>Detent Springs, and Contact Springs:</b> Stainless steel<br><b>Common Ring:</b> Brass, gold plate over silver plate<br><b>Terminals:</b> Brass, gold over silver and nickel plate<br><b>Rotor Contact:</b> 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. |
|-------------------------------------------------------------------------|-------------------------------------------------------------------|----------------|--------------|-------------|----------------------|------------------------|
| <b>Series 58J Switches</b>                                              |                                                                   |                |              |             |                      |                        |
| <b>J4: Standard—Key pulls at Position 1 and at 90 Degree Increments</b> | <b>A</b> = Standard, Solder Lugs<br><b>P</b> = Standard, PC Mount | 45°            | 1            | 1<br>2      | 02 to 08<br>02 to 04 | N or S<br>N or S       |
| <b>J8: Standard—Key Pulls at Each Position</b>                          | <b>A</b> = Standard, Solder Lugs<br><b>P</b> = Standard, PC Mount | 36°            | 1            | 1<br>2      | 02 to 10<br>02 to 05 | N or S<br>N or S       |
|                                                                         |                                                                   | 45°            | 1            | 1<br>2      | 02 to 08<br>02 to 04 | N or S<br>N or S       |
|                                                                         |                                                                   | 90°            | 1            | 1<br>2      | 02 to 04<br>02       | N<br>N                 |
| <b>J9: Standard—Key Pulls at Position 1 and at 180 Degrees</b>          | <b>A</b> = Standard, Solder Lugs<br><b>P</b> = Standard, PC Mount | 36°            | 1            | 1<br>2      | 02 to 10<br>02 to 05 | N or S<br>N or S       |
|                                                                         |                                                                   | 45°            | 1            | 1<br>2      | 02 to 08<br>02 to 04 | N or S<br>N or S       |
|                                                                         |                                                                   | 60°            | 1            | 1<br>2      | 02 to 06<br>02 to 03 | N<br>N                 |
|                                                                         |                                                                   | 90°            | 1            | 1<br>2      | 02 to 04<br>02       | N<br>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.

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

## ORDERING INFORMATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <b>Series</b><br><b>Lock Style:</b> per Choices Chart J4, J8, J9<br><b>Switch Style:</b> per Choices Chart A or P<br><b>Angle of Throw:</b> 36, 45, 60 or 90 (per Choices chart)<br><b>Number of Decks:</b> 01<br><b>Poles per Deck:</b> = 1 or 2 (per Choices chart)<br><b>Positions per Pole:</b> 02 thru 10 (per Choices chart)<br><b>Type of Contacts:</b> (per Choices chart)<br>N = Non-shorting<br>S = Shorting<br><b>Stop Arrangement Suffix:</b><br>(needed only for 1-pole switches with maximum positions)<br>F = Fixed stop between last and first positions<br>*Leave blank for continuous rotation |
| <b>58J8A36-01-1-10N-F</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
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- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

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Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

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