## FEATURES

- Sealed bushing
- Dry circuit (logic level loads) to power switching levels
- Two bushing and toggle lever sizes
- 1 and 2 pole circuitry
- Non-teasible mechanism for all but center "ON" circuits
- Wiping action contacts
- Positive make and break action
- Small and large size bushings and Actuator
- Printed circuit board termination
- Two types of printed circuit board terminals:
- Straight
- Formed (Right Angle)


## SPECIFICATIONS

- Bushing seal or bonded seal per MIL-DTL 8834
- MS approved and OPL'd to MIL-DTL-8834
- Temperature range: $-67^{\circ} \mathrm{F}$ to $+160^{\circ} \mathrm{F}$
$\left(-55^{\circ} \mathrm{C}\right.$ to $\left.+71^{\circ} \mathrm{C}\right)$
- Life: 20,000 operations at rated load 40,000 operations mechanical life
- "O" ring panel seal on $1 / 4$ " - 40 type bushing size <br> \title{


## MINIATURE POSITIVE ACTION SWITCHES <br> \title{ \section*{MINIATURE POSITIVE ACTION SWITCHES <br> <br> <br> MIL-DTL-8834 Miniature Positive Action Switches <br> <br> <br> MIL-DTL-8834 Miniature Positive Action Switches Printed Circuit Terminals} 

 Printed Circuit Terminals}}

| CURRENT RATINGS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of Poles | Catalog Number | Type of Operation | 28VDC <br> (Amperes per pole) |  | 115 VAC 60 Hz and 400 Hz (Amperes per pole) |  |  |  |
|  |  |  | Resistive Load 28VDC | Inductive Load <br> 28VDC | Resistive Load |  | Inductive Load |  |
|  |  |  |  |  | 60Hz | 400 Hz | 60 Hz | 400 Hz |
| 1 | $\begin{aligned} & 8866 \\ & 8868 \end{aligned}$ | Maintained and Momentary | 5 | 1 | 2 | 3 | 1 | 2 |
| 2 | $\begin{aligned} & 8867 \\ & 8869 \end{aligned}$ | Maintained and Momentary | 5 | 1 | 2 | 3 | 1 | 2 |

Minimum Rating: 25 microamperes at 5 millivolts.

## SELECTIONTABLE



## * Momentary contact.

See page A75 for special circuit diagrams.
(1) Dielectric per MIL-DTL-8834 except limited to 1250 volts. Delayed action of the switch toggle lever may cause circuit to close or open before snap action mechanism trips.
(2) Caution should be exercised during soldering and flux removal. See page A56 for details.
(3) Furnished with Bonded Seal Feature. (Meets 15' water sealing level requirement.)

## MOUNTING DIMENSIONS - ONE POLE



| STANDARD |
| :--- |
| $0.00=$ inches |
| $[0,0]=\mathrm{mm}$ |

[^0]Non-functional terminals not supplied.

## MOUNTING DIMENSIONS -TWO POLE



8867 Straight PC Mount


8867KA
Formed PC Mount


8869

## Straight PC Mount

STANDARD

| $0.00=$ inches |
| :--- |
| $[0,0]=\mathrm{mm}$ |

## Terminal Identification

Mounting dimensions for reference only.

## CAUTION AND RECOMMENDATION FOR CLEANING AND SOLDERING

Contamination of the contacts of miniature switches is the most common cause of problems in low energy circuits, resulting in the inability of current to flow through the increased resistance of the switch contacts. As most contamination occurs during the installation and cleaning of the switch, proper care when installing the switch can reduce problems in this area. The following procedures should be followed to reduce the possibility of switch contact contamination.

## Hand Solder

1. Use rosin core solder .030 "-. 040 " diameter.
2. A small soldering iron in the 30 to 40 watt range should be used.
3. The solder joint should not be overheated.
4. Do not position switch with terminations straight up.
5. No clean up should be necessary. However, if used, do not allow solvents to enter non-sealed areas of switches.

## Wave Solder - Miniature Switches

Do not immerse or spray with solvents to remove flux except for switches designed for this type of cleaning. The use of wave solder oil is not advised.

## OPTIONS/ACCESSORIES

## PANEL CUTOUT DIMENSIONS

- Special mounting hardware
- Special marking
- Mounting hardware furnished assembled
- Panel seal, Part Number 32-341
(15/32" - 32 bushing only)
- Special circuits
- Special bushing and lever plating
- Mounting adapter nut
- Custom wire harnesses
- EMI/RFI capability on two pole (15/32" - 32 bushing only)
- Gold plated contacts


## 15/32 DIA. BUSHING



1/4-40 DIA. BUSHING



[^0]:    Mounting dimensions for reference only.

