## MINIATURE POSITIVE ACTION SWITCHES

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FEATURES
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SPECIFCATIONS
Nof Current ratincs

- Bushing seal or bonded seal per MIL-S-8834 No
- MS approved and QPL'd to MIL-S-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 mechanical life
- " 0 " ring panel seal on $1 / 4$ "-40 type bushing size
- Solder lug terminals . 050 [1,27] dia. hole

| CIRCUIT WITH LEVER IN... |  |
| :--- | :--- | :--- | :--- | :--- |
| Up |  |
| Position |  |
| Center |  |
| Position |  | | Down |
| :---: |
| Position (Keyway) |

* Momentary contact.

See page 77 for special circuit diagrams.
(1) Dielectric per MIL-S-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 62 for details

## MOUNTING DIMENSIONS-ONE POLE / 8866



Terminal Identification


MOUNTING DIMENSIONS-TWO POLE/ 8867


Non-functional terminals not supplied.
Terminal Identification

## PANEL CUTOUT DIMENSIONS



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

## MINIATURE POSITIVE ACTION SWITCHES

| CIRCUIT WITH LEVER IN... |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8868 |  |  | Down Position (Keyway) | MS Part Number | Catalog <br> Number (2) | MS Part Number(3) | Catalog <br> Number (2) |
|  | ONEPOLE |  |  |  |  |  |  |
|  | ON <br> ON <br> ON <br> ON | OFF NONE NONE OFF | ON <br> OFF <br> ON <br> NONE | $\begin{array}{r} \text { MS90310-211 } \\ -221 \\ -231 \\ -241 \\ \hline \end{array}$ | 8868K1 K7 K4 K4 K5 | Feature in Single | Available Switches $\square$ |
|  | * ON NONE ON NONE | $\begin{aligned} & \hline \text { OFF } \\ & \text { OFF } \\ & \text { OFF } \\ & \text { ON } \end{aligned}$ | $\begin{aligned} & \text { ON* } \\ & \text { ON* } \\ & \text { ON* } \\ & \text { ON* } \end{aligned}$ | $\begin{array}{r} \hline \text { MS90310-271 } \\ -281 \\ -311 \\ \text { MS21351-321 } \end{array}$ | 8868K2 K6 K3 K8(1) | - - - | - |
|  | TWO POLE |  |  |  |  |  |  |
| 8869 | $\begin{aligned} & \mathrm{ON} \\ & \mathrm{ON} \\ & \mathrm{ON} \\ & \mathrm{ON} \end{aligned}$ | OFF <br> NONE <br> NONE <br> OFF | ON <br> OFF <br> ON <br> NONE | $\begin{array}{r} \text { MS90311-211 } \\ -221 \\ -231 \\ -241 \end{array}$ | $\begin{array}{r} 8869 \mathrm{~K} 1 \\ \text { K7 } \\ \text { K4 } \\ \text { K5 } \end{array}$ | $\begin{array}{r} \text { MS90311-711 } \\ -721 \\ -731 \\ -741 \\ \hline \end{array}$ | $\begin{array}{r} 8869 K 1 X \\ \text { K7X } \\ \text { K4X } \\ \text { K5X } \end{array}$ |
|  | * ON NONE ON | $\begin{aligned} & \hline \text { OFF } \\ & \text { OFF } \\ & \text { OFF } \end{aligned}$ | $\begin{aligned} & \hline O N \star \\ & 0 N * \\ & O N * \end{aligned}$ | $\begin{array}{r} \hline \text { MS90311-271 } \\ -281 \\ -311 \end{array}$ | $\begin{array}{r} \hline 8869 \mathrm{K2} \\ \text { K6 } \\ \text { K3 } \end{array}$ | $\begin{array}{r} \hline \text { MS90311-771 } \\ -781 \\ -811 \end{array}$ | 8869K2X K6X K3X |
|  | $\begin{aligned} \hline \text { NONE } \\ \text { ON } \\ \text { ON } \\ * O N \end{aligned}$ | $\begin{aligned} & \mathrm{ON} \\ & \mathrm{ON} \\ & \mathrm{ON} \\ & \mathrm{ON} \end{aligned}$ | ON* <br> ON <br> ON* <br> ON* | $\begin{array}{r} \hline \text { MS21353-321 } \\ -331 \\ -351 \\ -341 \end{array}$ | 8869K8(1) K91 K10(1) K111 | MS21353-821 -831 -851 -841 | $\begin{gathered} \hline \text { 8869K8X(1) } \\ \text { K9X(1) } \\ \text { K10X(1) } \\ \text { K11XX } \end{gathered}$ |

* Momentary contact.
(1) Dielectric per MIL-S-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 62 for details.
(3) Furnished with Bonded Seal Feature. (Meets 15' head of water sealing level.)



## MINIATURE POSITIVE ACTION SWITCHES

- Special mounting hardware
- Special marking
- Mounting hardware furnished assembled
- Panel seal, Part Number 32-341
- Lever extensions and attachable tips
- Special circuits
- Special bushing and lever plating
- Mounting adapter nuts
- Custom wire harnesses
- EMI/RFI capability on two pole (large bushing)
- Gold plated contacts


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

Mounting dimensions for reference only.

