## Features/Benefits

- Multi-pole and multi-position
- Shorting and non-shorting contacts available
- Low level and power capability
- PCB mounting


## Typical Applications

- Security alarm systems
- Medical equipment
- Computer servers



## Specifications

CONTACT RATING: Q contact material: Switch-2.5 AMPS @ 125 V AC; $350 \mathrm{~mA} @ 125$ V DC (UL/CSA). Carry-5 AMPS continuous. See page L-33 for additional ratings.
ELECTRICAL LIFE: 15,000 make-and-break cycles at full load up to 300,000 detent operations.
CONTACT RESISTANCE: Below $20 \mathrm{~m} \Omega$ typ. initial @ 2-4 V DC, 100 mA , for both silver and gold plated contacts.
INSULATION RESISTANCE: $10^{9} \Omega \mathrm{~min}$.
DIELECTRIC STRENGTH: $1,000 \mathrm{Vrms}$ min. @ sea level.
OPERATING TEMPERATURE: $-30^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$.
INDEXING: $30^{\circ}$ : $2-4$ positions, $45^{\circ}$ or $90^{\circ}$ : 2-3 positions.
STATIC RESISTANCE: Anti-static models exceed 20 KV DC static resistance @ sea level, lock body to terminals.

## Materials

LOCK: Zinc alloy with stainless steel facing.
KEYS: Two nickel plated brass keys with code number.
SWITCH HOUSING: Glass filled 6/6 nylon (UL 94V-0).
MOVABLE CONTACT: $Q$ contact material: Coin silver, silver plated. See page L-38 for additional contact materials.
STATIONARY CONTACTS \& TERMINALS: Q contact material: Brass, silver plated. See page L-33 for additional contact materials.
MOUNTING NUT: Zinc alloy.
DRESS NUT: Brass, nickel plated.
TERMINAL SEAL: Epoxy.
NOTE: Any models supplied with Q or B contact material are RoHS compliant.
NOTE: Specifications and materials listed above are for switchlocks with standard options. For information on specific and custom switchlocks, consult Customer Service Center.

## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages L-30 through L-33. For additional options not shown in catalog, consult Customer Service Center.


## A Series

## 4 \& 5 Tumbler 1-4 Pole Switchlocks

## 

| No. POLES | MODEL NO. | CONNECTED TERMINALS |  |  |  | KEY PULL POSITIONS | LOCKCONFIGURATION | INDEXING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | POS. 1 | POS. 2 | POS. 3 | POS. 4 |  |  |  |
| $\begin{aligned} & \text { SP } \\ & 3 P \end{aligned}$ | $\begin{aligned} & \text { A11413 * } \\ & \text { A31413 } \end{aligned}$ | $\begin{aligned} & \text { A-1 } \\ & \text { A-1, B-5, C-9 } \end{aligned}$ | $\begin{aligned} & \mathrm{A}-4 \\ & \mathrm{~A}-4, \mathrm{~B}-8, \mathrm{C}-12 \end{aligned}$ |  |  | Position 1 |  | $90^{\circ}$ |
| 3P | A3141U | A-1, B-5, C-9 | A-4, B-8, C-12 |  |  | Positions 1 \& 2 | POS. 1 <br> $\bigcirc$ <br> () 2 |  |
| $\begin{aligned} & \mathrm{SP} \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { A11513 * } \\ & \text { A31513 } \end{aligned}$ | $\begin{aligned} & \text { A-1 } \\ & \text { A-1, B-5, C-9 } \end{aligned}$ | $\begin{aligned} & \text { A-2 } \\ & \text { A-2, B-6, C-10 } \end{aligned}$ | $\begin{aligned} & \text { A-4 } \\ & \text { A-4, B-8, C-12 } \end{aligned}$ |  | Position 1 |  |  |
| 3P | A3151U | A-1, B-5, C-9 | A-2, B-6, C-10 | A-4, B-8, C-12 |  | Positions 1 \& 3 |  | $45^{\circ}$ |
| DP | A21582 | A-4, C-10 | A-5, C-11 | A-2, C-8 |  | Position 1 |  |  |
| $\begin{aligned} & \text { SP } \\ & \mathrm{DP} \end{aligned}$ | $\begin{aligned} & \text { A11613 * } \\ & \text { A21613 } \end{aligned}$ | $\begin{aligned} & \text { A-1 } \\ & \text { A-1, C-7 } \end{aligned}$ | $\begin{aligned} & \text { A-2 } \\ & \text { A-2, C-8 } \end{aligned}$ | $\begin{aligned} & \text { A-3 } \\ & \text { A-3, C-9 } \end{aligned}$ | $\begin{aligned} & \text { A-4 } \\ & \text { A-4, C-10 } \end{aligned}$ | Position 1 | POS. 1 | $30^{\circ}$ |
| SP | A1161U * | A-1 | A-2 | A-3 | A-4 | Positions 1 \& 4 | POS. 1 |  |
| $\begin{aligned} & \mathrm{SP} \\ & 4 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { A12112 * } \\ & \text { A42112 } \end{aligned}$ | $\begin{aligned} & \mathrm{A}-1 \\ & \mathrm{~A}-1, \mathrm{~B}-4, \mathrm{C}-7, \mathrm{D}-10 \end{aligned}$ | $\begin{aligned} & \mathrm{A}-2 \\ & \mathrm{~A}-2, \mathrm{~B}-5, \mathrm{C}-8, \mathrm{D}-11 \end{aligned}$ |  |  | Position 1 | POS. 1 | $45^{\circ}$ |

## LEGEND

- = Detent Positions $\left(30^{\circ}, 45^{\circ}\right.$ or $\left.90^{\circ}\right)$
- = Key pull possible in these positions.

*NOTE: Switchlock models A114XX, A115XX, A116XX and A12112 with 'C'
terminations have additional terminal no. 8 as switch support only. This terminal is not connected electrically inside switch.
All models ${ }^{\text {D }}$ US with all options when ordered with ' Q ' contact material. AX14 models not available with ' S ' shorting contacts.


TERMINAL NUMBERS


4P MODEL
SP MODEL (omit terminals B, C \& D)
DP MODEL (omit terminals B \& D)
Terminal numbers molded on housing bottom.


Part number shown: A116132Y2NZNQ



## KEYING

| OPTION <br> CODE | KEYING OPTIONS | CODE NO. <br> ON KEY | CODE NO. <br> ON LOCK |
| :---: | :---: | :---: | :---: |
| 2 | 2 NICKEL PLATED BRASS KEYS | YES | NO |

NOTE: All orders keyed alike, standard. For more than one key code, replacement keys, or other special features, consult Customer Service Center.


Key part number: 115140126
NOTE: Key head shape subject to change without notice.

## LOCK TYPE

A 4 TUMBLER LOCK WITH removable dress nut


Y 4 tumbler Lock with anti-static swith



Not available with AX23 models.

| AVAILABLE OPTION COMBINATIONS |  |  |
| :---: | :---: | :---: |
| LOCK <br> TYPES | MOUNTING STYLES |  |
|  | N | R |
| G | $\cdot$ |  |
| A |  | $\cdot$ |
| Y | $\cdot$ |  |

NOTE: For available option combinations, see page L-38.

## LOCK FINISH

2 stainless steel
1 NICKEL


| AVAILABLE OPTION COMBINATIONS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FINISH OPTIONS | LOCK TYPES |  |  | MOUNTING STYLES |  |
|  | G | A | Y | N | R |
| 1 |  | - |  |  | - |
| 2 | - |  | - | - |  |
| 8 | - | - | - |  | - |

NOTE: For available option combinations, see page M-38.

## SHORTING/NON-SHORTING

N NON-SHORTING CONTACTS (break-before-make)

S SHORTING CONTACTS (make-before-break)

## A Series

4 \& 5 Tumbler 1-4 Pole Switchlocks

|  |  |  |
| :---: | :---: | :---: |
| Z solderlug | C РС тнни-HoL | PC MOUNTING <br> SP MODEL (omit terminals B, C ,D) <br> DP MODEL (omit terminals B \& D) |
| MOUNTING/LOCK STYLE $\square$ ¢ |  |  |

N with nut


## PANEL MOUNTING



Nut part number: $937 C 00000$

R removable dress nut

## TYPICAL INSTALLATION

Install hex nut with enough clearance to allow for dress nut and panel. Place switch through cutout in rear of panel. Install and tighten dress nut by hand, then tighten hex nut Always tighten assembly with back of panel hex nut to avoid damaging front of panel.


PANEL MOUNTING


## MOUNTING/LOCK STYLE

## Mounting Information (All Models)

| MOUNTING <br> STYLES | PANEL THICKNESS |  |
| :---: | :---: | :---: |
|  | A \& Y LOCK TYPES | G LOCK TYPES |
| N | $.105(2,67)$ max. | $.195(4,95)$ max. |
| R | $.125(3,18)$ max. | $.215(5,46)$ max. |


| AVALLABLE OPTION COMBINATIONS |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MOUNTING <br> STYLES | LOCK FINISHES |  | LOCK TYPES |  |  |  |
|  | 1 | 2 | 8 | G | A | Y |
| $N$ |  | $\cdot$ | $\cdot$ | $\cdot$ |  | $\cdot$ |
| $R$ | $\cdot$ |  | $\cdot$ |  | $\cdot$ |  |

1. Place lock assembly in mounting hole on panel, secure with mounting nut.
2. Align keying tab on switch assembly with keying slot on lock assembly.
3. Snap assemblies together.
4. Switch installation is permanent. Switch cannot be removed from lock after assembly. Attempting to separate switch and lock may cause damage to switchlock.

## 

| OPTION <br> CODE | RoHS <br> COMPLIANT* | RoHS <br> COMPATIBLE* | CONTACT AND <br> TERMINAL MATERIAL | RATING |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Q | YES | YES | SILVER $^{2}$ | POWER | SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ $125 \mathrm{~V} \mathrm{DC} \mathrm{(UL/CSA)}$. <br> CARRY-5 AMPS CONTINUOUS. |
| B | YES | YES | GOLD $^{1}$ | LOW LEVEL/DRY CIRCUIT | 0.4 VA MAX. @ 20 V AC or DC MAX. |

${ }^{1}$ MOVABLE CONTACT: Copper alloy, with gold plate over nickel plate. STATIONARY CONTACTS \& TERMINALS: Brass, with gold plate over nickel plate.
2 MOVABLE CONTACT: Coin silver, silver plated.
STATIONARY CONTACTS \& TERMINALS: Brass, silver plated (standard with all termination options).

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.
All models with all options when ordered with ' $Q$ ' contact material.


## SEAL



## AVAILABLE HARDWARE

## Key Code: D001

5 TUMBLER
PART NO. (ONE KEY)

## 115441001

Material: Brass
Finish: Nickel plate

