

# A Series 4 & 5 Tumbler 1-4 Pole Switchlocks



## 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 mA @ 125 V DC (UL/CSA). Carry-5 AMPS continuous. See page M-38 for additional ratings.  
ELECTRICAL LIFE: 15,000 make-and-break cycles at full load up to 300,000 detent operations.  
CONTACT RESISTANCE: Below 20 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.  
INSULATION RESISTANCE:  $10^9$  Ω min.  
DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.  
OPERATING TEMPERATURE: -30°C to 85°C.  
INDEXING: 30°: 2-4 positions, 45° or 90°: 2-3 positions.  
STATIC RESISTANCE: Anti-static models exceed 20 KV DC static resistance @ sea level, lock body to terminals.

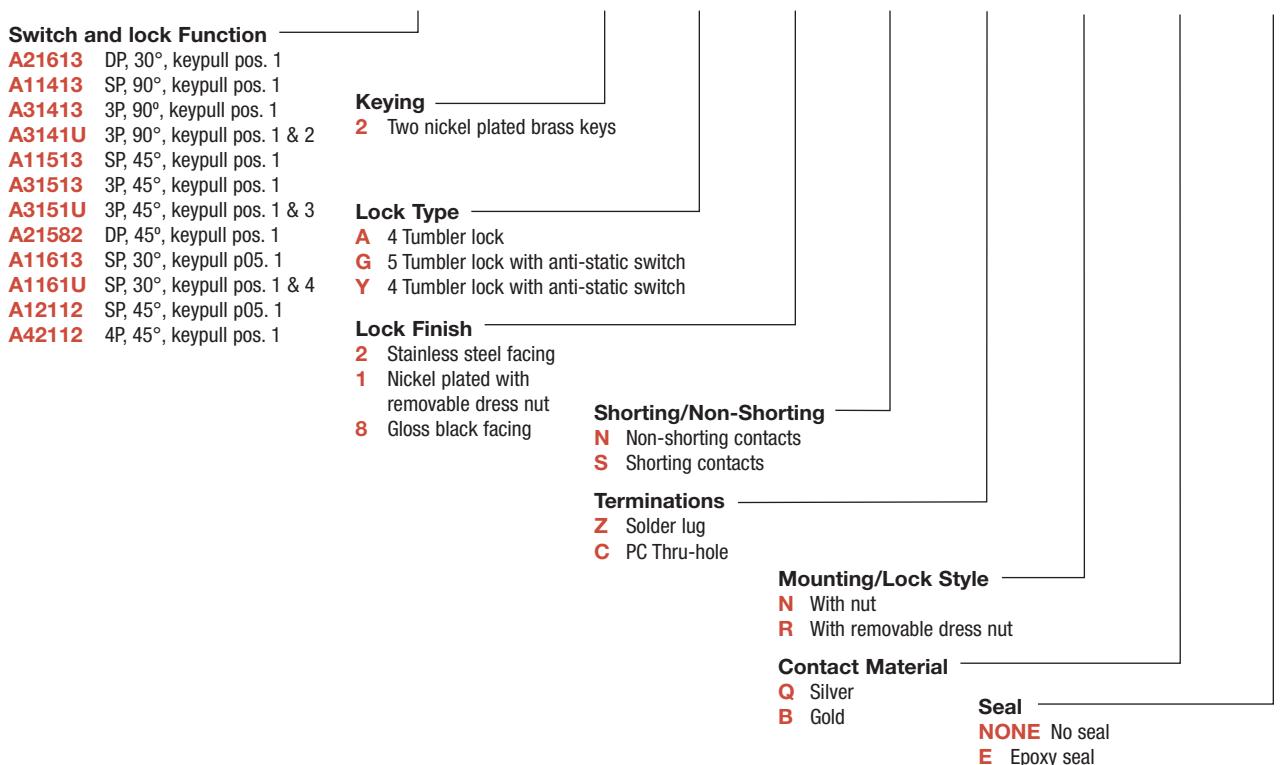
## Materials

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-38 for additional contact materials.  
MOUNTING NUT: Zinc alloy.  
DRESS NUT: Brass, nickel plated.  
LOCKING RING: 6/6 nylon (UL 94V-2).  
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-35 through L-38. For additional options not shown in catalog, consult Customer Service Center.

Switchlock



Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

# A Series 4 & 5 Tumbler 1-4 Pole Switchlocks

## SWITCH AND LOCK FUNCTION

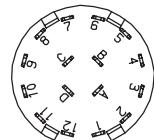


NO. POLES	MODEL NO.	CONNECTED TERMINALS				KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
		POS. 1	POS. 2	POS. 3	POS. 4			
SP 3P	<b>A11413 *</b> <b>A31413</b>	A-1 A-1, B-5, C-9	A-4 A-4, B-8, C-12			Position 1	POS. 1 	90°
3P	<b>A3141U</b>	A-1, B-5, C-9	A-4, B-8, C-12			Positions 1 & 2	POS. 1 	
SP 3P	<b>A11513 *</b> <b>A31513</b>	A-1 A-1, B-5, C-9	A-2 A-2, B-6, C-10	A-4 A-4, B-8, C-12		Position 1	POS. 1 	45°
3P	<b>A3151U</b>	A-1, B-5, C-9	A-2, B-6, C-10	A-4, B-8, C-12		Positions 1 & 3	POS. 1 	
DP	<b>A21582</b>	A-4, C-10	A-5, C-11	A-2, C-8		Position 1	POS. 1 	30°
SP DP	<b>A11613 *</b> <b>A21613</b>	A-1 A-1, C-7	A-2 A-2, C-8	A-3 A-3, C-9	A-4 A-4, C-10	Position 1	POS. 1 	
SP	<b>A1161U *</b>	A-1	A-2	A-3	A-4	Positions 1 & 4	POS. 1 	45°
SP 4P	<b>A12112 *</b> <b>A42112</b>	A-1 A-1, B-4, C-7, D-10	A-2 A-2, B-5, C-8, D-11			Position 1	POS. 1 	

### LEGEND

- = Detent Positions (30°, 45° or 90°)
- ◎ = Key pull possible in these positions.
- ◎ = Stop Positions

### TERMINAL NUMBERS



4P MODEL



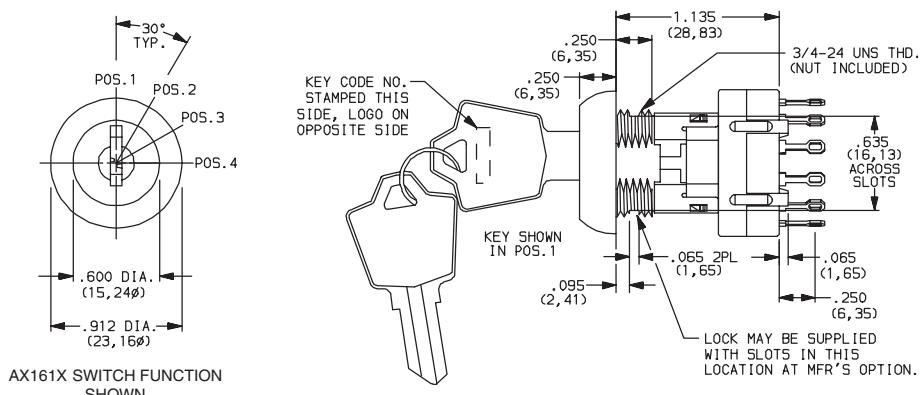
3P MODEL

**\*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.

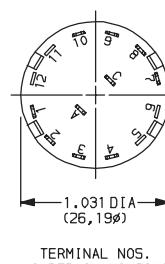
SP MODEL (omit terminals B, C & D)  
DP MODEL (omit terminals B & D)

All models  with all options when ordered with 'Q' contact material.  
AX14 models not available with 'S' shorting contacts.

Terminal numbers molded on housing bottom.

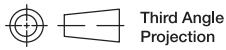


AX161X SWITCH FUNCTION SHOWN



TERMINAL NOS.  
MOLDED ON HOUSING

Part number shown: A116132Y2NZNQ



Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

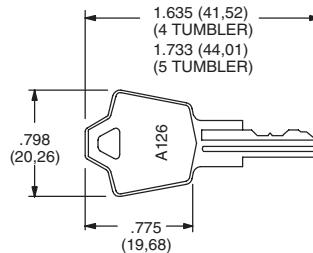
**C&K**

# A Series 4 & 5 Tumbler 1-4 Pole Switchlocks

## KEYING

OPTION CODE	KEYING OPTIONS	CODE NO. ON KEY	CODE NO. ON LOCK
<b>2</b>	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.

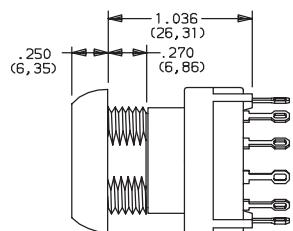


Key part number: 115140126

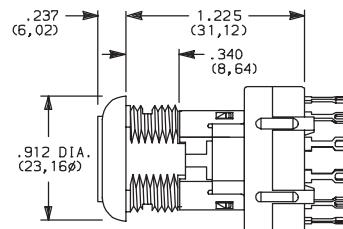
**NOTE:** Key head shape subject to change without notice.

## LOCK TYPE

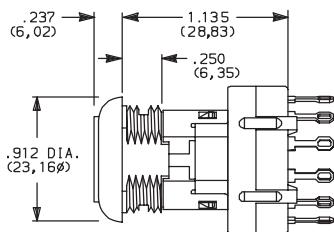
**A** 4 TUMBLER LOCK WITH REMOVABLE DRESS NUT



**G** 5 TUMBLER LOCK WITH ANTI-STATIC SWITCH



**Y** 4 TUMBLER LOCK WITH ANTI-STATIC SWITCH



Not available with AX23 models.

AVAILABLE OPTION COMBINATIONS		
LOCK TYPES	MOUNTING STYLES	
	N	R
G	•	
A		•
Y	•	

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

## LOCK FINISH

**2** STAINLESS STEEL



**1** NICKEL



**8** GLOSS BLACK



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)

Not available with AX14 models.

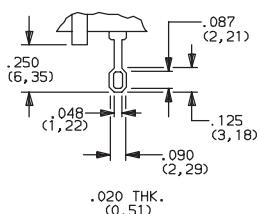


Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

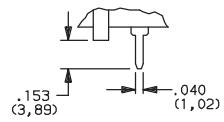
# A Series 4 & 5 Tumbler 1-4 Pole Switchlocks

## TERMINATIONS

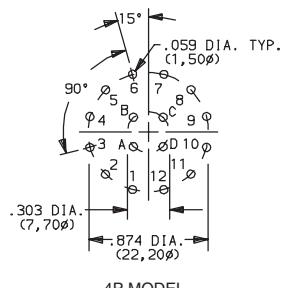
**Z** SOLDER LUG



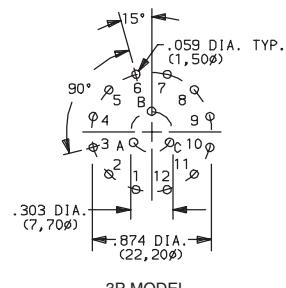
**C** PC THRU-HOLE



PC MOUNTING



4P MODEL

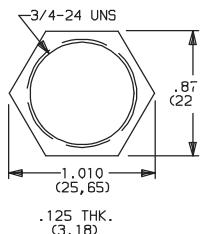


3P MODEL

SP MODEL (omit terminals B, C, D)  
DP MODEL (omit terminals B & D)

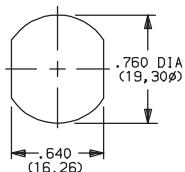
## MOUNTING/LOCK STYLE

**N** WITH NUT

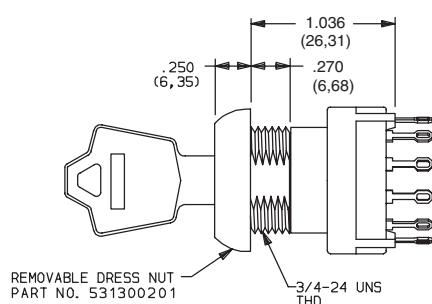
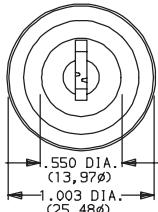


Nut part number: 175050700

PANEL MOUNTING



**R** REMOVABLE DRESS NUT

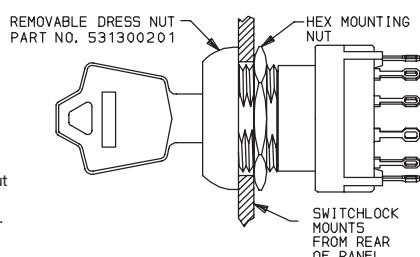


L

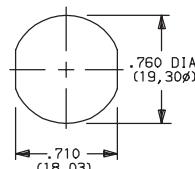
Switchlock

### 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



Third Angle Projection

Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

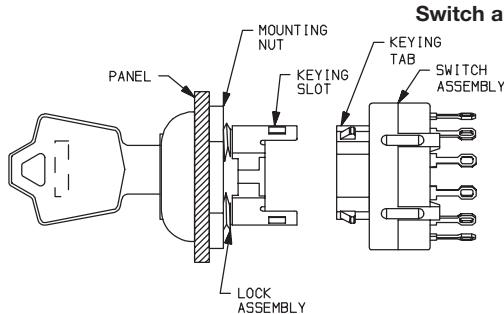
# A Series 4 & 5 Tumbler 1-4 Pole Switchlocks

## MOUNTING/LOCK STYLE

### Mounting Information (All Models)

MOUNTING 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.

MOUNTING STYLES	AVAILABLE OPTION COMBINATIONS					
	LOCK FINISHES			LOCK TYPES		
	1	2	8	G	A	Y
N			•	•	•	•
R	•			•	•	



**Switch and Lock Assembly Instructions**

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.

## CONTACT MATERIAL

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

<sup>1</sup> MOBILE CONTACT: Copper alloy, with gold plate over nickel plate.  
STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate.  
<sup>2</sup> MOBILE CONTACT: Copper alloy, with gold plate over nickel plate.  
STATIONARY CONTACTS & TERMINALS: Brass, silver plated (standard with all termination options).

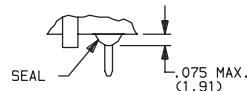
\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

All models   with all options when ordered with 'Q' contact material.

## SEAL

**NONE** NO SEAL

**E** EPOXY SEAL



## AVAILABLE HARDWARE



Key Code: A126

4 TUMBLER

PART NO. (ONE KEY)

**115140126**

Material: Brass  
Finish: Nickel plate

Key Code: D001

5 TUMBLER

PART NO. (ONE KEY)

**115441001**

Material: Brass  
Finish: Nickel plate



Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

# Mouser Electronics

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