# 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 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE:  $10^9 \Omega$  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).

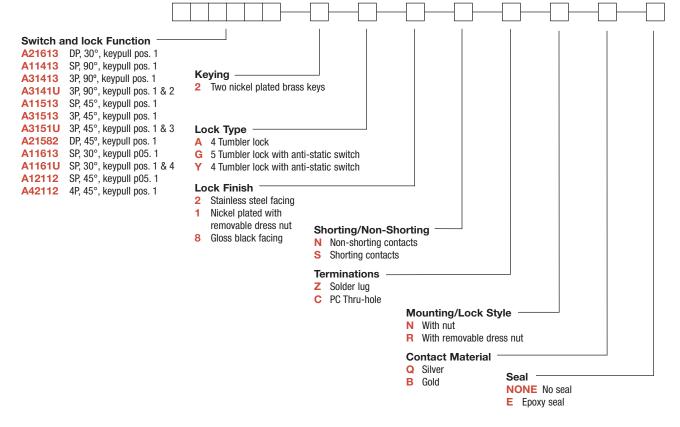
TERMINAL SEAL: Epoxy.

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.





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

**A Series** 

# SWITCH AND LOCK FUNCTION

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

#### LEGEND

= Detent Positions (30°, 45° or 90°)

= Key pull possible in these positions.

= Stop 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  $_{\odot}$   $\mbox{\begin{tabular}{ll} \line{100}}\mbox{\end{tabular}}\mbox{\end{tabular}}\mbox{\end{tabular}}\mbox{\end{tabular}}\mbox{\end{tabular}$  with all options when ordered with 'Q' contact material. AX14 models not available with 'S' shorting contacts.

## TERMINAL NUMBERS

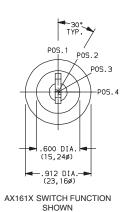


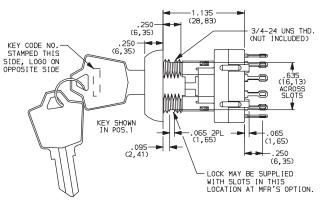


4P MODEL

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

Terminal numbers molded on housing bottom.







Part number shown: A116132Y2NZNQ



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

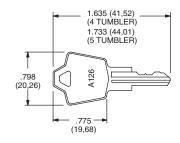


www.ck-components.com

# KEYING -----

OPTION CODE	KEYING OPTIONS	CODE NO. ON KEY	CODE NO. 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.



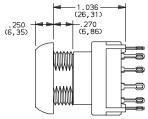
Key part number: 115140126

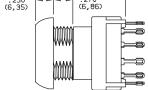
NOTE: Key head shape subject to change without notice.

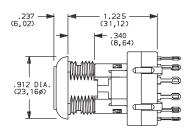
# LOCK TYPE

4 TUMBLER LOCK WITH REMOVABLE DRESS NUT

5 TUMBLER LOCK WITH ANTI-STATIC SWITCH







Not available with AX23 models.

Y	4 TUMBLER LOCK	( WITH	ANTI-STATIC	SWITCH
	. 237 ->	<b>—</b>	— 1.135 — (28 <b>,</b> 83)	-

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

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

## **LOCK FINISH**

-0-0-0-0



Switchlock

.912 DIA. (23,16¢)

NICKEL

GLOSS BLACK







	AVAILABLE OPTION COMBINATIONS					
	FINISH	LO	СК ТҮР	MOUNTING STYLES		
	OPTIONS	G	Α	Υ	N	R
	1		•			•
	2	•		•	•	
	8	•	•	•		•

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

## **SHORTING/NON-SHORTING**

NON-SHORTING CONTACTS (break-before-make)

SHORTING CONTACTS (make-before-break)

Not available with AX14 models



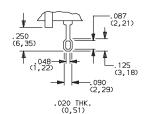
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

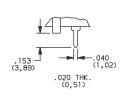


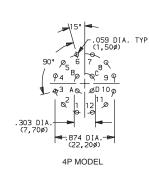
# TERMINATIONS ----

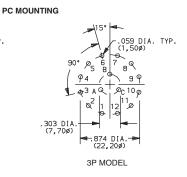
SOLDER LUG

PC THRU-HOLE







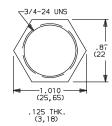


SP MODEL (omit terminals B, C,D) DP MODEL (omit terminals B & D)

## MOUNTING/LOCK STYLE

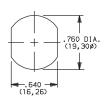


WITH NUT



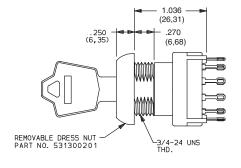
Nut part number: 175050700

#### PANEL MOUNTING



REMOVABLE DRESS NUT





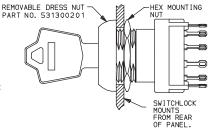




# PANEL MOUNTING HEX MOUNTING

#### 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.







.760 DIA. (19,30ø)

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



## MOUNTING/LOCK STYLE

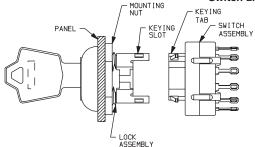
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## **Mounting Information (All Models)**

MOUNTING	PANEL THICKNESS			
STYLES	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.		

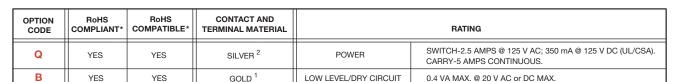
	AVAILABLE OPTION COMBINATIONS							
	MOUNTING STYLES	LOCK FINISHES			LOCK TYPES			
		1	2	8	G	Α	Υ	
	N		•	•	•		•	
	R	•		•		•		

# **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**



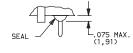
- <sup>1</sup> MOVABLE CONTACT: Copper alloy, with gold plate over nickel plate.
- STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate. <sup>2</sup> MOVABLE CONTACT: Coin silver, silver plated.
- STATIONARY CONTACTS & TERMINALS: Brass, silver plated (standard with all termination options).
- \* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



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

### SEAL

NONE NO SEAL EPOXY SEAL



## **AVAILABLE HARDWARE**



Key Code: A126 4 TUMBLER

PART NO. (ONE KEY)

115140126

Switchlock

Material: Brass Finish: Nickel plate Key Code: D001 5 TUMBLER

PART NO. (ONE KEY)

115441001

Material: Brass Finish: Nickel plate



