

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

INSULATION RESISTANCE: 10⁹ 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.



Switch and lock Function

- A21613** DP, 30°, keypull pos. 1
- A11413** SP, 90°, keypull pos. 1
- A31413** 3P, 90°, keypull pos. 1
- A3141U** 3P, 90°, keypull pos. 1 & 2
- A11513** SP, 45°, keypull pos. 1
- A31513** 3P, 45°, keypull pos. 1
- A3151U** 3P, 45°, keypull pos. 1 & 3
- A21582** DP, 45°, keypull pos. 1
- A11613** SP, 30°, keypull p05. 1
- A1161U** SP, 30°, keypull pos. 1 & 4
- A12112** SP, 45°, keypull p05. 1
- A42112** 4P, 45°, keypull pos. 1

Keying

- 2** Two nickel plated brass keys

Lock Type

- A** 4 Tumbler lock
- G** 5 Tumbler lock with anti-static switch
- Y** 4 Tumbler lock with anti-static switch

Lock Finish

- 2** Stainless steel facing
- 1** Nickel plated with removable dress nut
- 8** Gloss black facing

Shorting/Non-Shorting

- N** Non-shorting contacts
- S** Shorting contacts

Terminations

- Z** Solder lug
- C** PC Thru-hole

Mounting/Lock Style

- N** With nut
- R** With removable dress nut

Contact Material

- Q** Silver
- B** Gold

Seal

- NONE** No seal
- E** Epoxy seal



Switchlock



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

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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	A11413 * A31413	A-1 A-1, B-5, C-9	A-4 A-4, B-8, C-12			Position 1		90°
3P	A3141U	A-1, B-5, C-9	A-4, B-8, C-12			Positions 1 & 2		
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		45°
3P	A3151U	A-1, B-5, C-9	A-2, B-6, C-10	A-4, B-8, C-12		Positions 1 & 3		
DP	A21582	A-4, C-10	A-5, C-11	A-2, C-8		Position 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		30°
SP	A1161U *	A-1	A-2	A-3	A-4	Positions 1 & 4		
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		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 with all options when ordered with 'Q' contact material.

AX14 models not available with 'S' shorting contacts.

TERMINAL NUMBERS



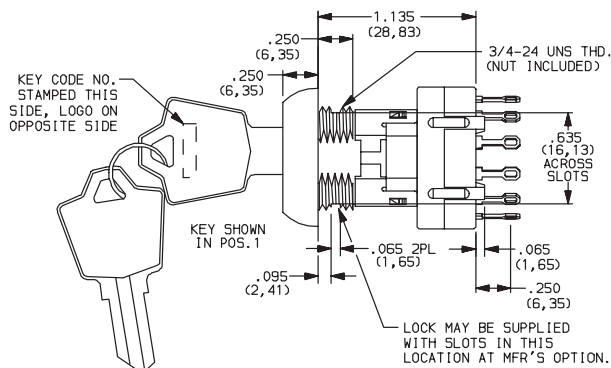
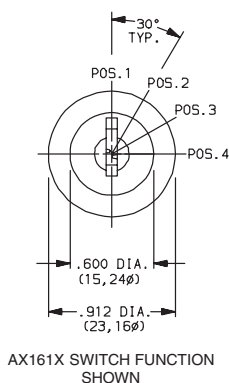
4P MODEL



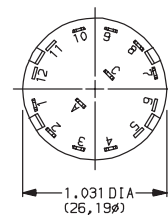
3P MODEL

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

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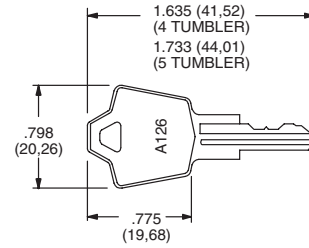


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KEYING

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.

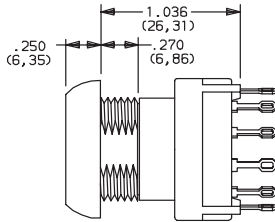


Key part number: 115140126

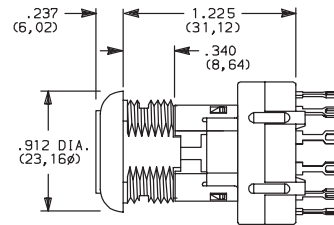
NOTE: Key head shape subject to change without notice.

LOCK TYPE

A 4 TUMBLER LOCK WITH REMOVABLE DRESS NUT

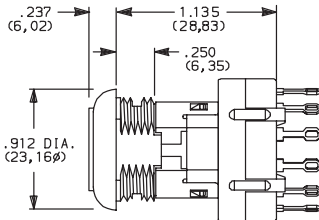


G 5 TUMBLER LOCK WITH ANTI-STATIC SWITCH



Not available with AX23 models.

Y 4 TUMBLER LOCK WITH ANTI-STATIC SWITCH



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



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

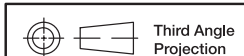
NOTE: For available option combinations, see page M-38.

SHORTING/NON-SHORTING

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

S SHORTING CONTACTS (make-before-break)

Not available with AX14 models.



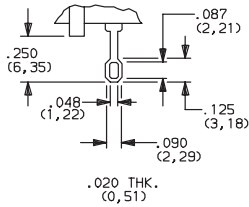
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



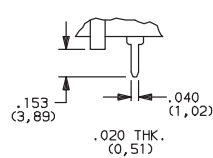
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TERMINATIONS

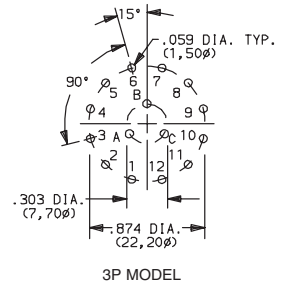
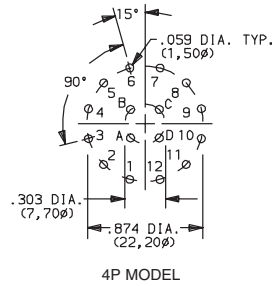
Z SOLDER LUG



C PC THRU-HOLE



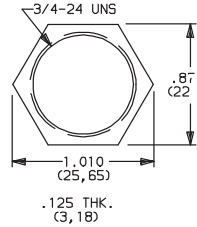
PC MOUNTING



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

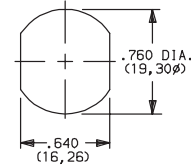
MOUNTING/LOCK STYLE

N WITH NUT

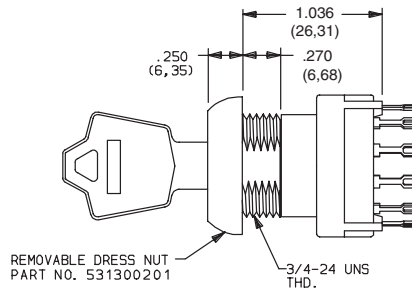
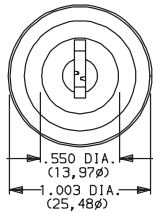


Nut part number: 175050700

PANEL MOUNTING

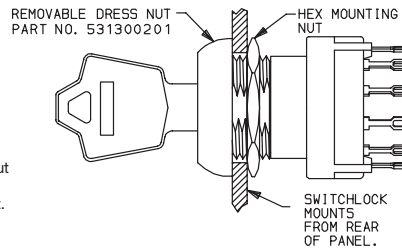


R REMOVABLE DRESS NUT

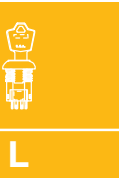
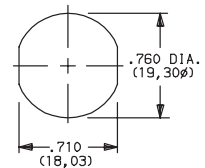


TYPICAL INSTALLATION

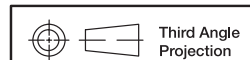
Install hex nut with enough clearance to allow for dress nut and panel. Place switch through cutout in rear of panel. Install and tighten dress nut by hand, then tighten hex nut. Always tighten assembly with back of panel hex nut to avoid damaging front of panel.



PANEL MOUNTING



Switchlock



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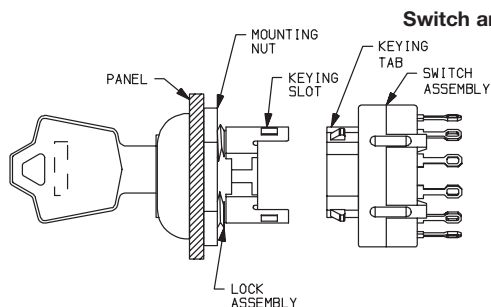
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MOUNTING/LOCK STYLE

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	
Q	YES	YES	SILVER ²	POWER	SWITCH-2.5 AMPS @ 125 V AC; 350 mA @ 125 V DC (UL/CSA). 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).

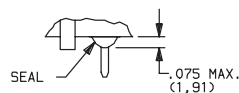
* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

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

SEAL

NONE NO SEAL

E EPOXY SEAL

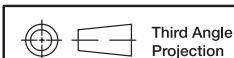


AVAILABLE HARDWARE



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

