4 & 5 Tumbler 1-4 Pole Switchlocks





Agency Approvals

Agency	Agency File Number
c 91 °us	E42363

Note: For Q contact material

Specifications

Contact Ratings	O contact material: Switch 2.5 A @ 125 V AC; 350 mA @ 125 V DC; 1 A @ 250 V AC (UL) Carry: 5 A continous.
Contact Resistance	Below 20 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

Electrical Characteristics

Electrical Life	15,000 make-and-break cycles at full load up to 300,000 detent operations.	
Insulation Resistance	10° Ω min.	
Dielectric Strength	1,000 Vrms min. @ sea level.	
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.	
Operating Temperature	–30°C to 85°C.	

Description

A series switches are 4 & 5 tumbler, 1-4 pole switchlocks that are used regularly by designers of security alarm systems, medical equipment and computer servers. Available with multi-pole and multi-position options, the A series have a low-level power capability and are availability with shorting or non-shorting contacts available.

Features & Benefits

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

Applications

- Security alarm systems
- Medical equipment
- Computer servers

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 7 for additional contact materials
Stationary Contacts & Terminals	Q contact material: Brass, silver plated. See page 7 for additional contact materials.
Mounting Nut	Zinc alloy
Dress Nut	Brass, nickel plated
Terminal Seal	Ероху

Notes:

Any models supplied with Ω or B contact material are RoHS compliant. Specifications and materials listed above are for switchlocks with standard options. For information on specific and custom switchlocks, consult Customer Service Center.

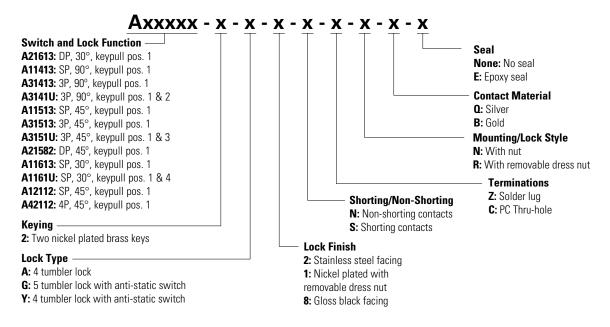


4 & 5 Tumbler 1-4 Pole Switchlocks



Ordering Number

To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.







Switch and Lock Function

No Dolos	Model No.		Connected	Var. Dull Dasitions	Lask Caufinomatian	In decise of		
No. Poles	wodei wo.	POS. 1	POS. 2	POS. 3	POS. 4	Key Pull Positions	Lock Configuration	indexing
SP 3P	A11413 ¹ A31413	A-1 A-1, B-5, C-9	A-4 A-4, B-8, C-12	-	-	Position 1	POS. 1 ● 2	90°
3P	A314AU	A-1, B-5, C-9	A-4, B-8, C-12	-	-	Positions 1 & 2	POS. 1	90°
SP 3P	A11513 ¹ 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	45°
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 3	45°
SP DP	A11613 ¹ A21613	A-1 A-1, C-7	A-2 A-2, C-8	A-3 A-3, C-9	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 ¹ 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	45°

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

- = Detent Positions (30°, 45° or 90°)
- Exercise the second of the second of
- Stop Positions

Terminal Numbers

4P Model



3P Model

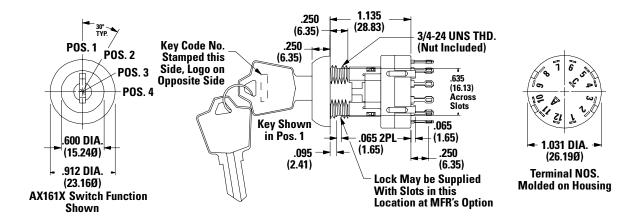


SP Model (omit terminals B, C & D) DP Model (omit terminals B & D)

Terminal numbers molded on housing bottom.

4 & 5 Tumbler 1-4 Pole Switchlocks





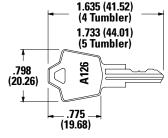
Note: Part number shown: A116132Y2NZNQ

Keying

Option Code	Keying Options	Code No. On Key	Code No. On Lock
2	2 nickel plated brass keys	Yes	No

Notes:

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

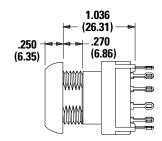


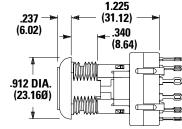
Notes: Key head shape subject to change without notice. Key part number: 115140126

Lock Type

Option Code A 4 Tumbler Lock with Removable Dress Nut

Option Code G 5 Tumbler Lock with Anti-Static Switch



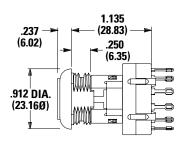


Notes: Not available with AX23 models.

4 & 5 Tumbler 1-4 Pole Switchlocks



Option Code Y 4 Tumbler Lock with Anti-Static Switch



Available Option Combinations

Lock Types	Mountin	ng Styles
Lock Types	N	R
G	•	-
А	-	•
Y	•	-

Notes: For available option combinations, see page 7.

Lock Finish

2 Stainless Steel

1 Nickel

8 Gloss Black



Available Option Combinations

Finish		Lock Types			Mounting Styles		
	Options	G	Α	Υ	N	R	
	1	-	•	-	-	•	
	2	•	-	•	•	-	
	8	•	•	•	-	•	

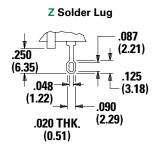
Notes: For available option combinations, see page 7.

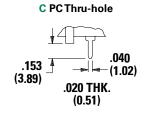
Shorting/Non-Shorting

N Non-Shorting Contacts (break-before-make)
S Shorting Contacts (make-before-break)

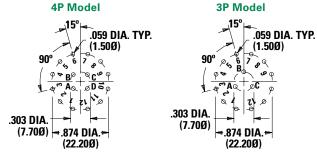
Notes: Not available with AX14 models

Terminations





PC Mounting

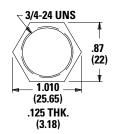


Notes: SP model (omit terminals B, C ,D) DP model (omit terminals B & D)

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N With Nut



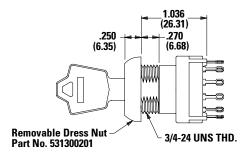
Note: Nut part number: 937C00000

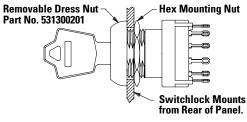
Panel Mounting

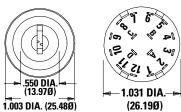


Mounting/Lock Style

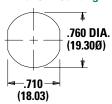
R Removable Dress Nut







Panel 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.





Mounting Information (All Models)

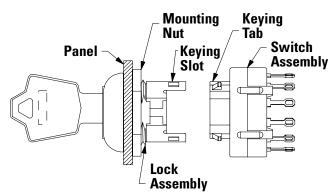
Panel Thickness

Mounting Styles	A & Y Lock Types	G Lock Types
N	0.105 (2.67) max.	0.195 (4.95) max.
R	0.125 (3.18) max.	0.215 (5.46) max.

Available Option Combinations

Mounting	Lo	ock Finish	es	Lock Types		
Styles	1	2	8	G	Α	Y
Ν		•				
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 ¹	ROHS Compatible ¹	Contact and Terminal Material	Rating	
Q	Ye	es	Silver ³	Power	Q contact material: Switch 2.5 A @ 125 V AC; 350 mA @ 125 V DC; 1 A @ 250 V AC (UL) Carry: 5 A continous.
В	Ye	es	Gold ²	Low Level / Dry Circuit	0.4 VA Max. @ 20 V AC or DC max.

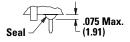
Notes:

- See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.
- Movable Contact: Copper alloy, with gold plate over nickel plate. Stationary Contacts & Terminals: Brass, with gold plate over nickel plate.
 Movable Contact: Copper alloy, with gold plate over nickel plate. Stationary Contacts & Terminals: Brass, with gold plate over nickel plate.
 Movable Contact: Coin silver, silver plated. Stationary Contacts & Terminals: Brass, silver plated (standard with all termination options).

All models **c % v** with all options when ordered with 'O' 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

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