





# Switchlocks

## Product Selection Guide

Switchlock				
<b>Series</b>	<b>Y</b>	<b>YF</b>	<b>YM</b>	<b>PF &amp; PM</b>
<b>Switch Type</b>	4,5,6 Tumbler	4 Tumbler	4 Tumbler	Tumbler
<b>Lock</b>	Metal	Metal	Metal	Plastic
<b>Latch Pawl</b>	•			
<b>Miniature</b>		•	•	•
<b>Anti-static</b>	•			
<b>Momentary</b>	•			
<b>Poles</b>	1 & 2	1 & 2	1	1 & 2
<b>Indexing</b>	45° & 90°	45° & 90°	90°	45° & 90°
<b>Max. Current</b>	4 Amps	4 Amps	4 Amps	4 Amps
<b>Panel Mount Options</b>				
Snap-in				•
Bushing	•	•	•	
PC Thru-hole	•			
VDE Approved			•	• (PM Only)
<b>Page No.</b>	L-3	L-11	L-15	L-18/L-22

Switchlock			
<b>Series</b>	<b>A</b>	<b>H</b>	<b>PL</b>
<b>Switch Type</b>	4 & 5 Tumbler	5 Tumbler	5 Tumbler
<b>Lock</b>	Metal	Metal	Plastic
<b>Cam</b>			•
<b>Miniature</b>			•
<b>Anti-static</b>	•		
<b>Momentary</b>			
<b>Poles</b>	1 - 4	1 & 2	N/A
<b>Indexing</b>	30°, 45°, 90°	45° & 90°	90°
<b>Max. Current</b>	2.5 Amps	12 Amps	
<b>Panel Mount Options</b>			
Snap-in			•
Bushing	•	•	
Thru-hole	•		
<b>Page No.</b>	L-25	L-30	L-35

# Y Series 4, 5 & 6 Tumbler Switchlocks

## Features/Benefits

- **Anti-static switch—exceeds 20 KV DC static resistance**
- **Momentary models available**
- **Wire leads and harnesses available**



## Typical Applications

- **Point-of-sale terminals**
- **Cash registers**
- **Computers**



Patent No. 4,639,562

## Specifications

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). See page M-9 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

INDEXING: 45° or 90°, 2-4 positions (4&5 tumbler switchlocks). 45°, 3 positions; or 90°, 2 positions (6 tumbler tubular switchlocks).

Other functions available, consult Customer Service Center.

STATIC RESISTANCE: Anti-static models exceed 20 KV DC static resistance @ sea level, lock body to terminals.

MOUNTING TORQUE: 10 in./lbs.; 14 in./lbs max.

## Materials

LOCK: Zinc alloy with stainless steel facing, std. (4 & 5 tumbler lock and 6 tumbler tubular lock).

KEYS: Two nickel plated brass keys, with code number, std. (4 and 5 tumbler lock). Two die cast chrome plated zinc alloy keys, std. (6 tumbler lock).

SWITCH HOUSING: Glass filled polyester (UL 94V-0).

CONTACTS AND TERMINALS: Q contact material: Copper, silver plated. See page L-9 for additional contact materials.

MOUNTING NUT: Zinc alloy.

MOUNTING CLIP: Steel, zinc plated.

DRESS NUT: Brass, nickel plated.

TERMINAL SEAL: Epoxy.

**NOTE:** Any models supplied with Q, B or G 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-4 through L-10. For additional options not shown in catalog, consult Customer Service Center.

<p><b>Switch and Lock Function</b></p> <p><b>Y10013</b> SP, 45°, keypull pos. 1  <b>Y1011U</b> SP, 90°, keypull pos. 1 &amp; 2  <b>Y1001U</b> SP, 45°, keypull pos. 1 &amp; 3  <b>Y2001U</b> DP, 45°, keypull pos. 1 &amp; 3  <b>Y10082</b> SP, 45°, keypull pos. 1  <b>Y20082</b> DP, 45°, keypull pos. 1  <b>Y100AA</b> SP, 45°, keypull pos. 1, 2 &amp; 3  <b>Y200AA</b> DP, 45°, keypull pos. 1, 2 &amp; 3  <b>Y100AB</b> SP, 45°, keypull pos. 1, 2, 3 &amp; 4  <b>Y200AB</b> DP, 45°, keypull pos. 1, 2, 3 &amp; 4  <b>Y10113</b> SP, 90°, keypull pos. 1  <b>Y20113</b> DP, 90°, keypull pos. 1  <b>Y1011C</b> SP, 90°, keypull pos. 2  <b>Y2011C</b> DP, 90°, keypull pos. 2  <b>Y2011U</b> DP, 90°, keypull pos. 1 &amp; 2  <b>Y14173</b> SP, 90°, keypull pos. 1  <b>Y1417U</b> SP, 90°, keypull pos. 1, 2 &amp; 3  <b>Y10812</b> SP, 45°, mom., keypull pos. 1  <b>Y20812</b> DP, 45°, mom., keypull pos. 1  <b>Y19073</b> SP w/common, 90°, keypull pos. 1  <b>Y1907U</b> SP w/common, 90°, keypull pos. 1, 2 &amp; 3  <b>Y1900S</b> SP w/common, 90°, keypull pos. 1, 2, 3 &amp; 4</p>	<p><b>Keying</b></p> <p><b>2</b> Two nickel plated brass keys (4 &amp; 5 tumbler) or two die cast zinc alloy keys with chrome plating (6 tumbler)  <b>6</b> Two nickel plated brass keys with code on lock face</p> <p><b>Lock Type</b></p> <p><b>A</b> 4 Tumbler lock (YX08 models)  <b>C</b> 4 Tumbler lock with detent  <b>V</b> 6 Tumbler tubular lock  <b>B</b> 5 Tumbler lock  <b>R</b> 4 Tumbler lock with detent and anti-Static switch  <b>W</b> 6 Tumbler tubular lock with anti-Static switch</p> <p><b>Lock Finish</b></p> <p><b>2</b> Stainless steel facing  <b>8</b> Gloss black facing  <b>F</b> Polished nickel facing</p>	<p><b>Terminations</b></p> <p><b>03</b> Solder lug with hole  <b>01</b> Solder lug with notch  <b>02</b> PC Thru-hole  <b>07</b> Solder lug with hole (Y190XX models only)  <b>WC</b> Wire lead</p> <p><b>Mounting/Lock Style</b></p> <p><b>N</b> With nut  <b>D</b> With clip  <b>L</b> With removable dress nut and latch pawl  <b>R</b> With removable dress nut</p>	<p><b>Contact Material</b></p> <p><b>Q</b> Silver  <b>B</b> Gold  <b>G</b> Gold over silver</p> <p><b>Seal</b></p> <p><b>NONE</b> No seal  <b>E</b> Epoxy seal</p>



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



Switchlock

# Y Series 4, 5 & 6 Tumbler Switchlocks

## SWITCH AND LOCK FUNCTION



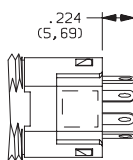
SINGLE & DOUBLE POLE SWITCHES									
NO. TUMBLERS	NO. POLES	MODEL NO.	CONNECTED TERMINALS				KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
			POS. 1	POS. 2	POS. 3	POS. 4			
4, 5 & 6	SP	<b>Y10013</b>	8-1	1-2	2-3		Position 1		45°
4, 5 & 6	SP DP	<b>Y1001U</b> <b>Y2001U</b>	8-1 8-1, 4-5	1-2 1-2, 5-6	2-3 2-3, 6-7		Positions 1 & 3		
4 & 5	SP DP	<b>Y10082</b> <b>Y20082</b>	8-1 8-1, 4-5	1-2 1-2, 5-6	7-8 7-8, 3-4		Position 1		
4	SP DP	<b>Y100AA</b> <b>Y200AA</b>	8-1 8-1, 4-5	1-2 1-2, 5-6	7-8 7-8, 3-4		Positions 1, 2 & 3		
4	SP DP	<b>Y100AB</b> <b>Y200AB</b>	8-1 8-1, 4-5	1-2 1-2, 5-6	2-3 2-3, 6-7	3-4 3-4, 7-8	Positions 1, 2, 3 & 4		
4, 5 & 6	SP DP	<b>Y10113</b> <b>Y20113</b>	8-1 8-1, 4-5	1-3 1-3, 5-7			Position 1		90°
4 & 5	SP DP	<b>Y1011C</b> <b>Y2011C</b>	8-1 8-1, 4-5	1-3 1-3, 5-7			Position 2		
4, 5 & 6	SP DP	<b>Y1011U</b> <b>Y2011U</b>	8-1 8-1, 4-5	1-3 1-3, 5-7			Positions 1 & 2		
4	SP	<b>Y14173</b>	7-1	1-3	6-7		Position 1		
4	SP	<b>Y1417U</b>	7-1	1-3	6-7		Positions 1, 2 & 3		
SINGLE & DOUBLE POLE MOMENTARY SWITCHES									
NO. TUMBLERS	NO. POLES	MODEL NO.	CONNECTED TERMINALS				KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
			POS. 1	POS. 2	POS. 3	POS. 4			
4	SP DP	<b>Y10812</b> <b>Y20812</b>	8-1 8-1, 4-5	1-2 1-2, 5-6			Position 1		45° Mom.



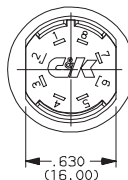
Switchlock

### LEGEND

- ▲ = Momentary Positions (45°)
- = Detent Positions (45° or 90°)
- ⊙ = Key pull possible in these positions.
- ⊙ = Stop Positions



### TERMINAL NUMBERS



Terminal numbers molded on bottom of housing.

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



Third Angle Projection

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



# Y Series 4, 5 & 6 Tumbler Switchlocks

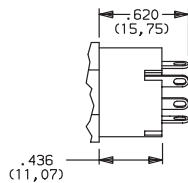
## SWITCH AND LOCK FUNCTION



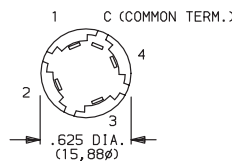
SINGLE POLE SWITCHES WITH COMMON									
NO. TUMBLERS	NO. POLES	MODEL NO.	CONNECTED TERMINALS				KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
			POS. 1	POS. 2	POS. 3	POS. 4			
4	SP	Y19073	C-1	C-2	C-4		Position 1		90°
		Y1907U					Positions 1, 2 & 3		
		Y1900S	C-1	C-2	C-3	C-4	Positions 1, 2, 3 & 4		

### LEGEND

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



### TERMINAL NUMBERS

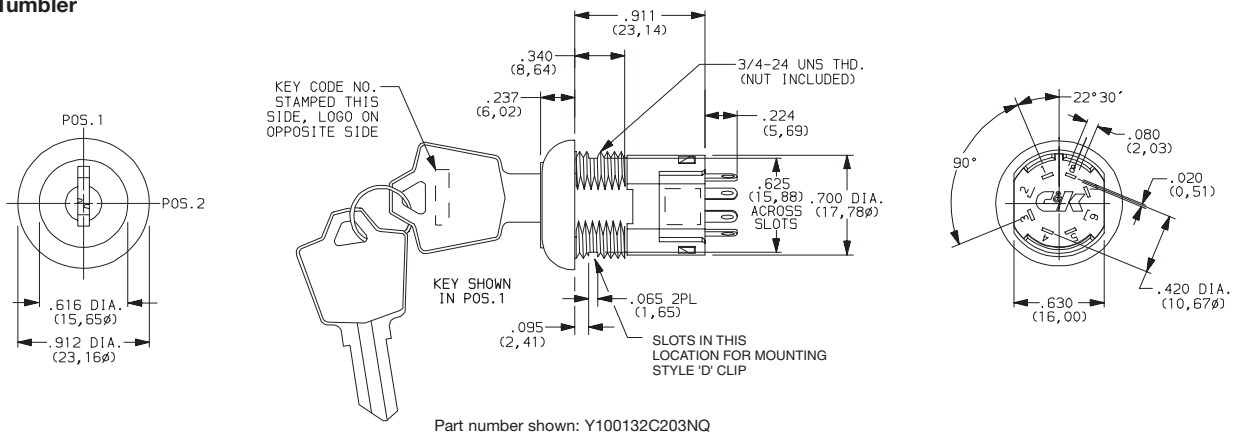


Terminal numbers marked on insulator.

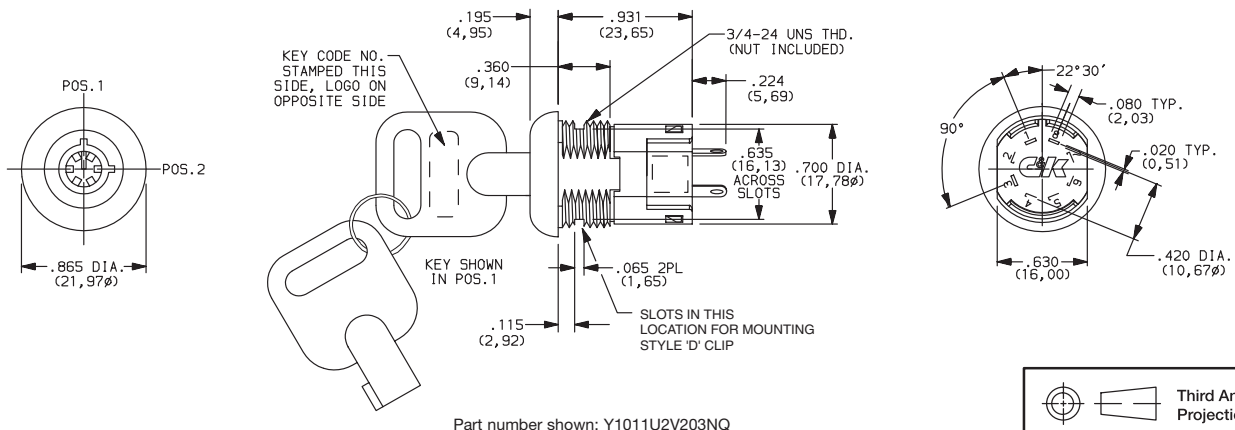
All models with all options when ordered with 'G' or 'Q' contact material.

**NOTE:** Epoxy seal not available. Removable dress nut not available with any Y190XX models.

### 4 & 5 Tumbler



### 6 Tumbler



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



Switchlock

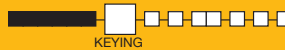
# Y Series 4, 5 & 6 Tumbler Switchlocks

## SWITCH AND LOCK FUNCTION



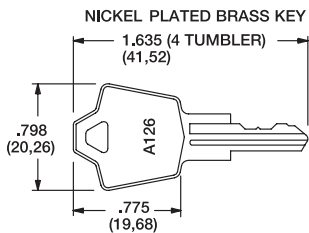
AVAILABLE OPTION COMBINATIONS															
MODELS	LOCK TYPES						TERMINATIONS					MOUNTING/LOCK STYLES			
	A	B	C	R	V	W	01	02	03	07	WC	D	L	N	R
YX0013		•	•		•	•	•	•	•		•	•		•	•
YX001U		•	•	•	•	•	•	•	•		•	•	•	•	•
YX0082		•	•	•			•	•	•		•	•		•	
YX00AX			•	•			•	•	•		•	•		•	•
YX0113		•	•	•	•	•	•	•	•		•	•		•	•
YX011C		•	•	•			•	•	•		•	•		•	•
YX01IU		•	•	•	•	•	•	•	•		•	•	•	•	•
Y141XX			•	•			•	•	•		•	•		•	•
YX0812	•						•	•	•		•	•		•	
Y190XX			•	•				•		•	•			•	

## KEYING

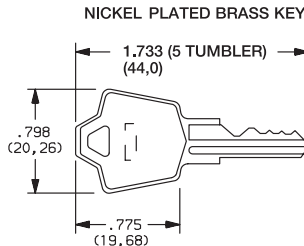


OPTION CODE	KEYING OPTIONS	CODE NO. ON KEY	CODE NO. ON LOCK
2	2 NICKEL PLATED BRASS KEYS (4 & 5 TUMBLER) or 2 DIE CAST CHROME PLATED ZINC ALLOY KEYS (6 TUMBLER)	YES	NO
6	2 NICKEL PLATED BRASS KEYS, 4 & 5 TUMBLER ONLY	YES	YES

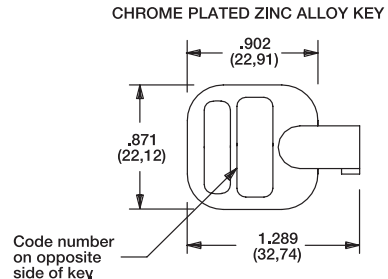
**NOTE:** All orders keyed alike, standard. For more than one key code, master keying, replacement keys, or other special features, consult Customer Service Center.



Key part number: 115140126



Key part number: 115441001



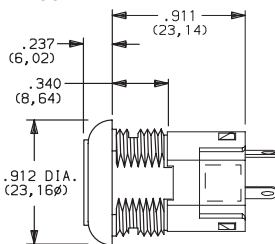
Key part number: 363C1AAAA

**NOTE:** Keys are available separately, see page L-10. Key head shape subject to change without notice.

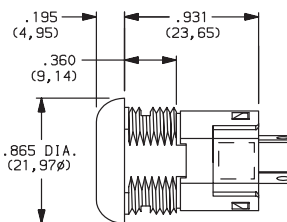
## LOCK TYPE



- C** 4 TUMBLER LOCK WITH DETENT
- B** 5 TUMBLER LOCK

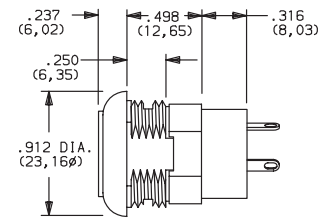


- V** 6 TUMBLER TUBULAR LOCK



Available with Lock Finish '2' only

- A** 4 TUMBLER LOCK (MOMENTARY MODELS ONLY)



Third Angle Projection

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



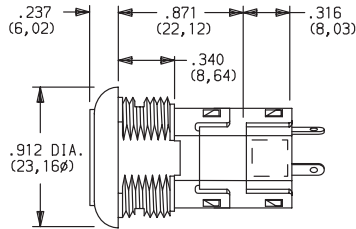
Switchlock

# Y Series 4, 5 & 6 Tumbler Switchlocks

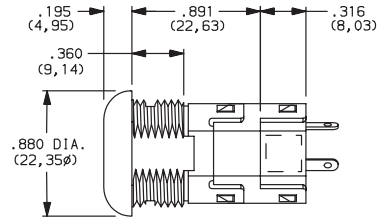
## LOCK TYPE

### SHORT ANTI-STATIC LOCK TYPES

**R** 4 TUMBLER LOCK WITH DETENT AND SHORT ANTI-STATIC SWITCH.



**W** 6 TUMBLER TUBULAR LOCK WITH ANTI-STATIC SWITCH



Available with Lock Finish '2' only.

**NOTE:** For available option combinations, see page L-9.  
U.S. Pat. No. 4,639,562 Exceeds 20 KV DC static resistance @ sea level, lock body to terminals.

## LOCK FINISH

**2** STAINLESS STEEL

**8** GLOSS BLACK

**F** POLISHED NICKEL

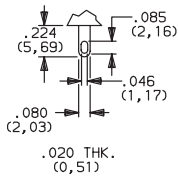


Available with Lock Types 'V' & 'W' only.

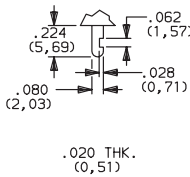
**NOTE:** For available option combinations, see page L-9.

## TERMINATIONS

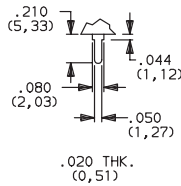
**03** SOLDER LUG WITH HOLE



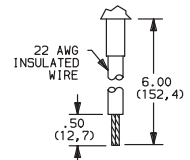
**01** SOLDER LUG WITH NOTCH



**02** PC THRU-HOLE



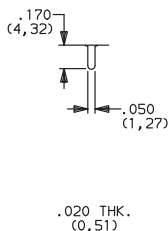
**WC** WIRE LEAD



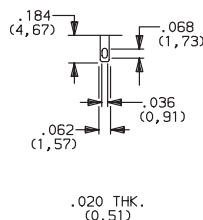
Black wire standard. other colors and lengths available, consult Customer Service Center. UL style 1015.

All Models Except Y190

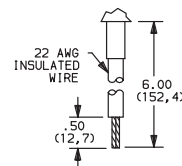
**02** PC THRU-HOLE



**07** SOLDER LUG WITH HOLE

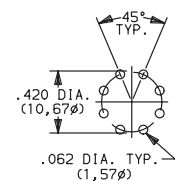


**WC** WIRE LEAD



Black wire standard. other colors and lengths available, consult Customer Service Center. UL style 1015.

**PC MOUNTING**



Third Angle Projection

Y190 Model Only



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

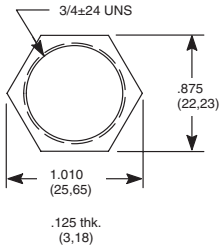


Switchlock

# Y Series 4, 5 & 6 Tumbler Switchlocks

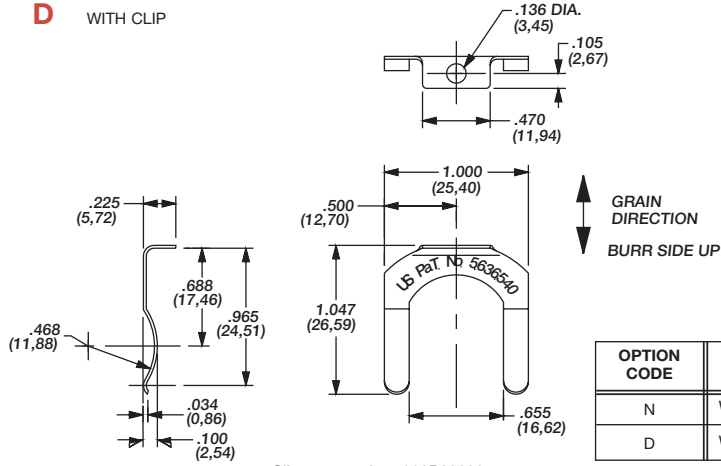
## MOUNTING/LOCK STYLE

**N** WITH NUT



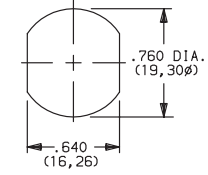
Nut part number: 175050700

**D** WITH CLIP



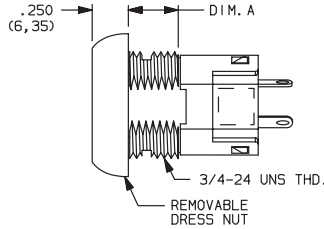
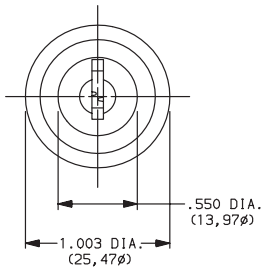
Clip part number: 906B00000

PANEL MOUNTING

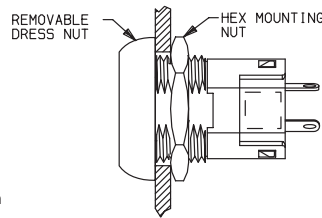
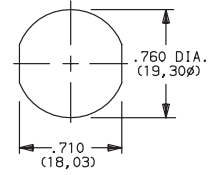


OPTION CODE	MOUNTING STYLE	PANEL THICKNESS
N	WITH NUT	.085-.105 (2,16-2,67)
D	WITH CLIP	.085-.105 (2,16-2,67)

**R** REMOVABLE DRESS NUT



PANEL MOUNTING



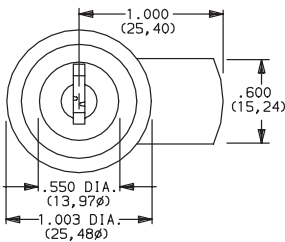
LOCK DIMENSIONS	
LOCK TYPES	DIMENSIONS
	'A'
A, N	.270 (6,68)
C, R	.360 (9,14)

### TYPICAL INSTALLATION

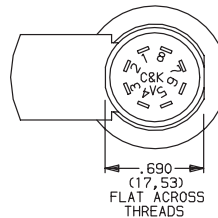
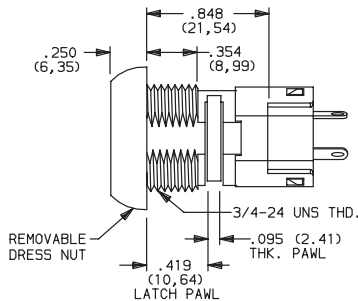
Install hex nut with enough clearance to allow for dress nut and panel. Place switch through cutout in rear of panel. Install and tighten dress nut by hand, then tighten hex nut. Always tighten assembly with back of panel hex nut to avoid damaging front of panel.

**NOTE:** Removable dress nut not available with Y1900A or Y100AA model options.

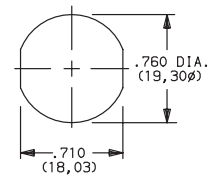
**L** REMOVABLE DRESS NUT WITH LATCH PAWL



Latch pawl shown in pos. 1.



PANEL MOUNTING



Switchlock



Third Angle Projection

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

# Y Series 4, 5 & 6 Tumbler Switchlocks

## MOUNTING/LOCK STYLE

### Mounting Information (All Models)

PANEL THICKNESS			
MOUNTING STYLES	A, B LOCK TYPES	C, R LOCK TYPES	V, W LOCK TYPES
D	.065-.085 (1, 65-2, 16)		.085-.105 (2, 16-2, 67)
N	.105 (2, 67) max.	.195 (4, 95) max.	.215 (5, 46) max.
L	.215 (5, 46) max.		-
R	.125 (3, 18) max.	.215 (5, 46) max.	-

AVAILABLE OPTION COMBINATIONS									
MOUNTING STYLES	LOCK FINISHES			LOCK TYPES					
	2	8	F	A	B	C	R	V	W
D	●	●	●	●	●	●	●	●	●
N	●	●	●	●	●	●	●	●	●
R		●	●	●		●	●		
L		●	●			●	●		

## CONTACT MATERIAL



OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT AND TERMINAL MATERIAL	RATING	
<b>Q</b>	YES	YES	SILVER <sup>2</sup>	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 AC V AC (UL/CSA).
<b>B</b>	YES	YES	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX
<b>G</b>	YES	YES	GOLD SILVER <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA)

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

<sup>1</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

<sup>2</sup> CONTACTS & TERMINALS: Copper, silver plated (std. with all termination options).

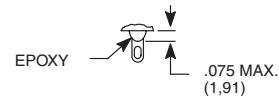
<sup>3</sup> CONTACTS & TERMINALS: Copper, with gold plate over silver plate.

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

## SEAL

**NONE** NO SEAL

**E** EPOXY SEAL



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



# Y Series 4, 5 & 6 Tumbler Switchlocks

## 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



Key Code: AAAA  
**PART NO. (ONE KEY)**  
**363C1AAAA**

**Material:** Zinc alloy  
Finish: Chrome plate



Switchlock

# YF Series 4 Tumbler Miniature Switchlocks

## Features/Benefits

- Multi-pole and multi-position
- Positive detent
- Low level and power capability

## Typical Applications

- Computer servers
- Point-of-sale terminals
- Cash registers



## Specifications

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). See page M-14 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

INDEXING: 45°:3 positions max., 90°:2 positions max.

## Materials

LOCK: Zinc alloy with stainless steel facing. 4 tumbler, single bitted lock with integral detent mechanism.

KEYS: Two nickel plated brass keys with code number.

SWITCH HOUSING: 6/6 Nylon (UL 94V-2).

CONTACTS & TERMINALS: Q contact material: Copper, silver plated. See page L-14 for additional contact materials.

MOUNTING NUT: Brass, bright zinc plated.

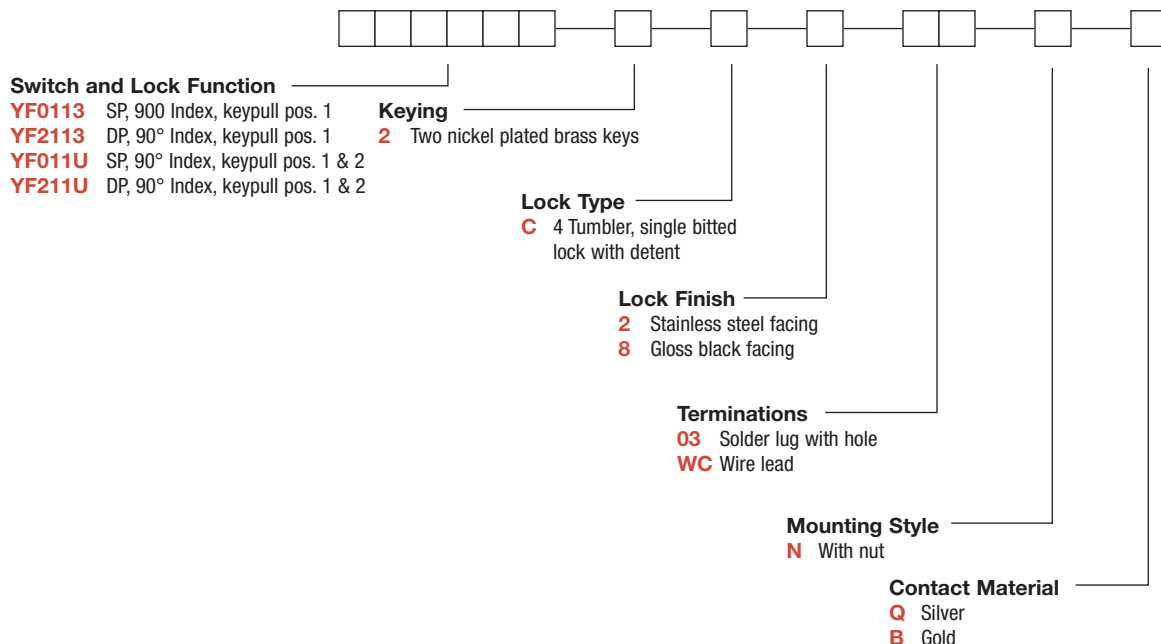
TERMINAL SEAL: Epoxy.

**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-12 through L-14. For additional options not shown in catalog, consult Customer Service Center.



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



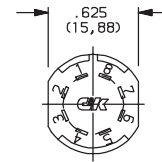
Switchlock

# C&K YF Series 4 Tumbler Miniature Switchlocks

## SWITCH AND LOCK FUNCTION

SINGLE & DOUBLE POLE SWITCHES							
NO. POLES	MODEL NO.	CONNECTED TERMINALS			KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
		POS. 1	POS. 2	POS. 3			
SP DP	<b>YF0013</b> <b>YF2113</b>	8-1 8-1, 4-5	1-3 1-3, 5-7		Position 1		90°
SP DP	<b>YF011U</b> <b>YF211U</b>	8-1 8-1, 4-5	1-3 1-3, 5-7		Positions 1 & 2		

### TERMINAL NUMBERS

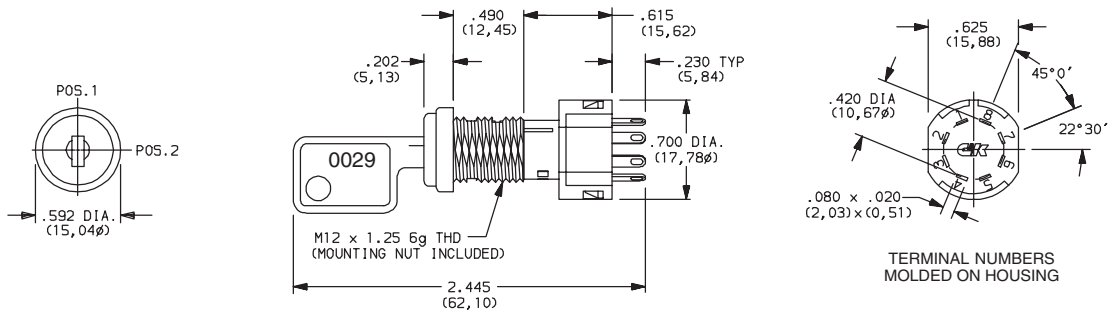


Terminal numbers molded on bottom of housing.

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

### LEGEND

- = Detent Positions (45° or 90°)
- ⊙ = Key pull possible in these positions.
- ⦿ = Stop Positions



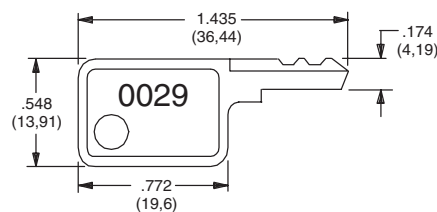
Part number shown: YF01132C203NQ



Switchlock

## KEYING

**2** TWO NICKEL PLATED BRASS KEYS



Key Part Number: 119091029

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



Third Angle Projection

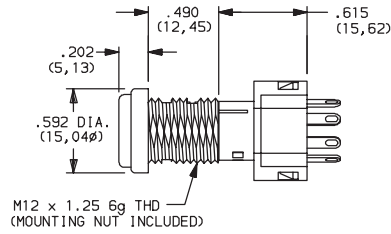
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



# C&K YF Series 4 Tumbler Miniature Switchlocks

## LOCK TYPE

**C** 4 TUMBLER, SINGLE BITTED LOCK WITH DETENT



## LOCK FINISH

**2** STAINLESS STEEL FACING

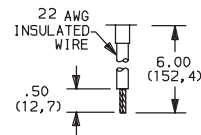
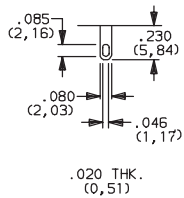
**8** GLOSS BLACK FACING



## TERMINATIONS

**03** SOLDER LUG WITH HOLE

**WC** WIRE LEAD



Black wire standard, other colors and lengths available, consult Customer Service Center. UL style 1015.



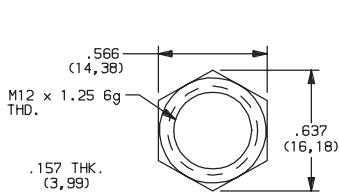
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



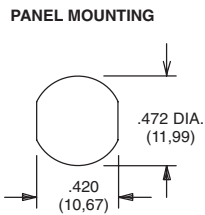
# YF Series 4 Tumbler Miniature Switchlocks

## MOUNTING STYLE

**N** WITH NUT

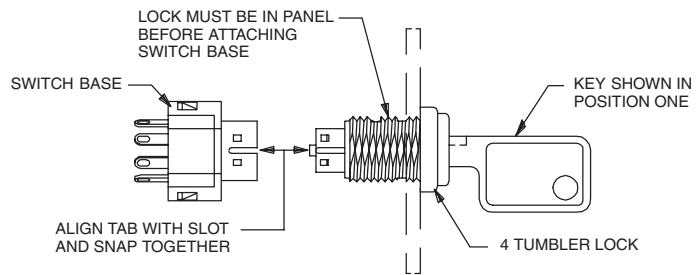


Nut part number: 179090123



Panel thickness:  
.300 (7.62) max.

### Switch and Lock Assembly Instructions



**NOTE:** Switch installation is permanent. Switch cannot be removed from lock after assembly. Attempts to separate switch and lock may damage switch.

## CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT AND TERMINAL MATERIAL	RATING	
<b>Q</b>	YES	YES	SILVER <sup>2</sup>	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
<b>B</b>	YES	YES	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX.

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

<sup>1</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

<sup>2</sup> CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

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

## AVAILABLE HARDWARE



Key Code: 0029

**PART NO. (ONE KEY)**

**960B10029**

**Material:** Brass  
**Finish:** Nickel plate



Switchlock



Third Angle Projection

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

# YM Series 4 Tumbler Miniature Switchlocks

## Features/Benefits

- Snap-together assembly allows for pre-wiring of switch
- Wire lead terminations available
- 4 Tumbler lock with positive detent

## Typical Applications

- Cable TV connectors
- Automotive accessories
- Computers



## Specifications

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). 4 AMPS @ 125 V AC, 2 AMPS @ 250 V AC, T65, class 1 (VDE). See page M-17 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

INDEXING: 90°:2 positions.

## Materials

LOCK: Zinc alloy with stainless steel facing. 4 tumbler single bitted lock with integral detent mechanism.

KEYS: Two nickel plated brass keys with code number.

SWITCH HOUSING: 6/6 Nylon (UL 94V-2).

CONTACTS & TERMINALS: Q contact material: Copper, silver plated. See page L-17 for additional contact materials.

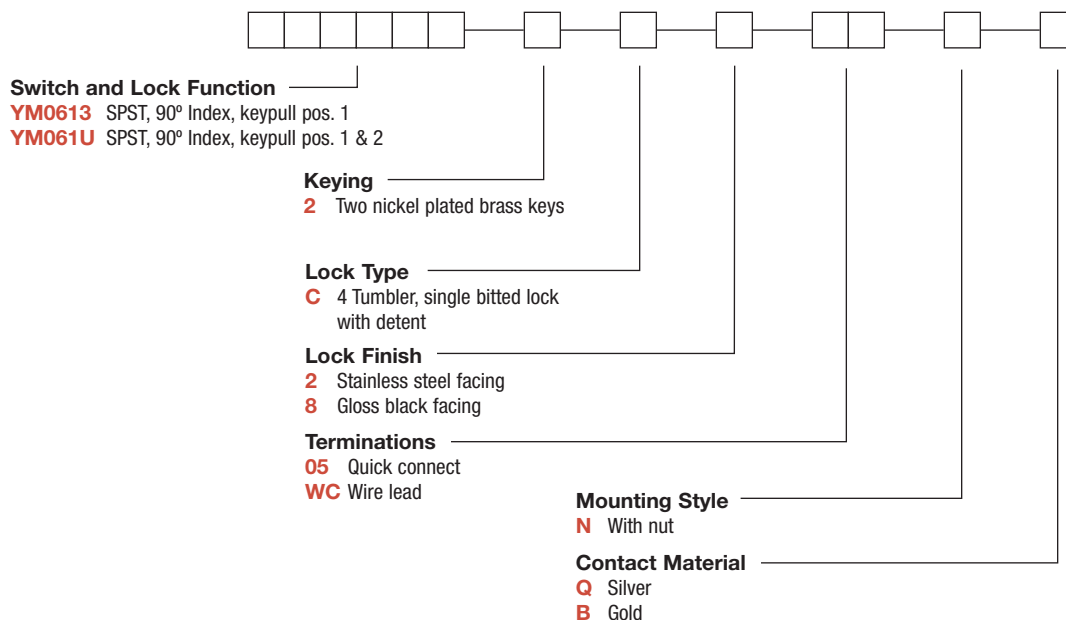
MOUNTING NUT: Brass, bright zinc plated.

**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-16 and L-17. For additional options not shown in catalog, consult Customer Service Center.



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



Switchlock

# YM Series 4 Tumbler Miniature Switchlocks

## SWITCH AND LOCK FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING	SCHEMATIC
		POS. 1	POS. 2				
SP	YM0613	OFF	ON	Position 1		90°	
	YM061U			Positions 1 & 2			
<p><b>SPST</b></p> <p>Part number shown: YM0613C205NQ</p> <p>M12 x 1.25 6g THD. (MOUNTING NUT INCLUDED)</p>							

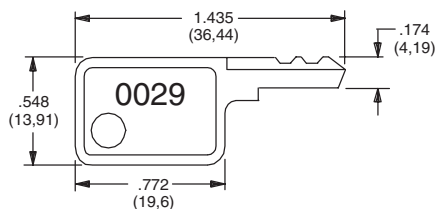
All models with all options when ordered with 'Q' contact material.

### LEGEND

- = Detent Positions (90°)
- = Key pull possible in these positions
- = Stop Positions

## KEYING

**2** TWO NICKEL PLATED BRASS KEYS

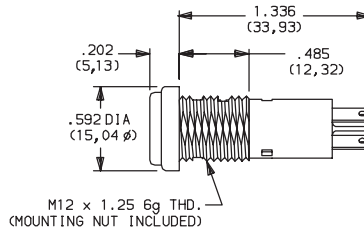


Key part number: 119091029

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

## LOCK TYPE

**C** 4 TUMBLER SINGLE BITTED LOCK WITH DETENT



Switchlock

## LOCK FINISH

**2** STAINLESS STEEL FACING

**8** GLOSS BLACK FACING



Third Angle  
Projection

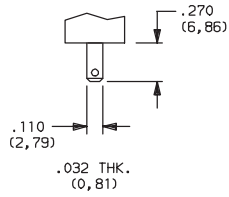
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

**C&K**

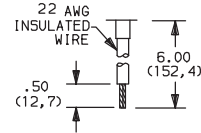
# YM Series 4 Tumbler Miniature Switchlocks

## TERMINATIONS

### 05 QUICK CONNECT



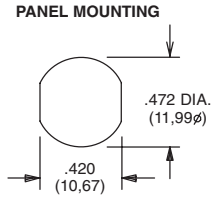
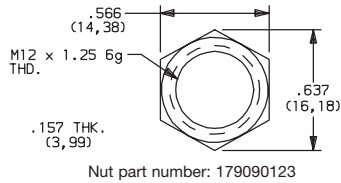
### WC WIRE LEAD



Black wire standard, other colors and lengths available, consult Customer Service Center. UL style 1015.

## MOUNTING STYLE

### N WITH NUT



Panel thickness:  
.300 (7,62) max.



## CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT AND TERMINAL MATERIAL	RATING	
Q	YES	YES	SILVER <sup>2</sup>	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 AC V AC (UL/CSA).
B	YES	YES	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX.

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

<sup>1</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

<sup>2</sup> CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

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

## AVAILABLE HARDWARE



Key Code: 0029

PART NO. (ONE KEY)

960B10029

Material: Brass  
Finish: Nickel plate



Third Angle  
Projection

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



Switchlock

# PF Series 5 Tumbler Miniature Snap-in Switchlocks

## Features/Benefits

- Snap-in mounting
- Multi-pole and multi-position
- Positive detent

## Typical Applications

- Computers
- Point-of-sale terminals
- Instrumentation



Models Available

## Specifications

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). See page M-30 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

INDEXING: 45°: 3 positions, 90°: 2 positions.

## Materials

LOCK: 6/6 nylon with matte finish (UL 94V-2), black, 5 tumbler, single bitted lock with integral detent mechanism.

KEYS: Two nickel plated brass keys with black plastic head.

SWITCH HOUSING: 6/6 nylon (UL 94V-2).

CONTACTS & TERMINALS: Q contact material: Copper, silver plated. See page L-30 for additional contact materials.

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-28 through L-30. For additional options not shown in catalog, consult Customer Service Center.



### Switch and lock Function

- PF011U SP, 90° Index, keypull pos. 1 & 2
- PF201U DP, 45° Index, keypull pos. 1 & 3
- PF211U DP, 90° Index, keypull pos. 1 & 2

### Keying

- E Two nickel plated brass keys with insert molded plastic head

### Lock Type

- B 5 Tumbler lock with detent

### Lock Finish

- M Plastic lock with matte finish

### Terminations

- 03 Solder lug with hole
- WC Wire lead

### Lock Style

- K Cone shaped facing

### Contact Material

- Q Silver
- B Gold

### Lock Color

- 2 Black

### Key Color

- 2 Black



Switchlock



Dimensions are shown in inches (mm)

Specifications and dimensions are subject to change



# PF Series 5 Tumbler Miniature Snap-in Switchlocks

## SWITCH AND LOCK FUNCTION

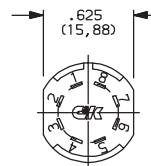
SINGLE & DOUBLE POLE SWITCHES							
NO. POLES	MODEL NO.	CONNECTED TERMINALS			KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
		POS. 1	POS. 2	POS. 3			
DP	<b>PF201U</b>	8-1, 4-5	1-2, 5-6	2-3, 6-7	Positions 1 & 3		45°
SP DP	<b>PF011U</b> <b>PF211U</b>	8-1 8-1, 4-5	1-3 1-3, 5-7		Positions 1 & 2		90°

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

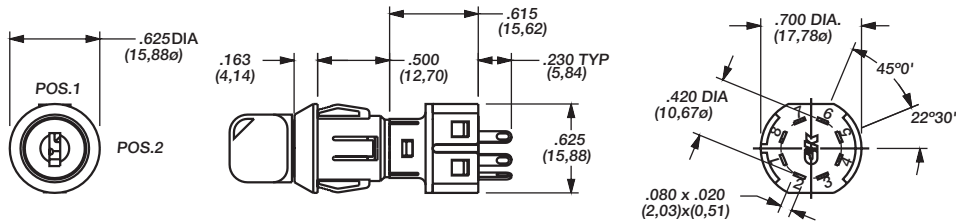
### LEGEND

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

### TERMINAL NUMBERS

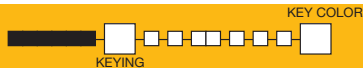


Terminal numbers molded on housing.

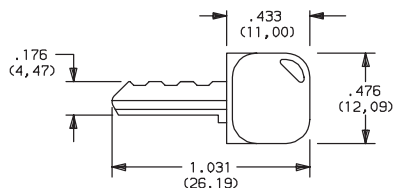


Part number shown: PF011UEBM03KQ22

## KEYING



**E** TWO NICKEL PLATED BRASS KEYS WITH INSERT MOLDED PLASTIC HEAD



Key part number: 334C1004102

OPTION CODE	KEY COLOR
<b>2</b>	BLACK

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



Third Angle Projection

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

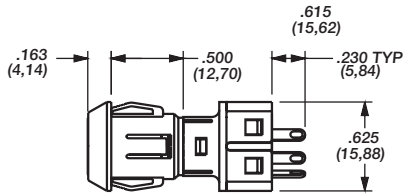


Switchlock

# PF Series 5 Tumbler Miniature Snap-in Switchlocks

## LOCK TYPE

**B** 5 TUMBLER LOCK WITH DETENT



OPTION CODE	LOCK COLOR
<b>2</b>	BLACK

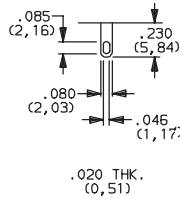
## LOCK FINISH

**M** PLASTIC LOCK WITH MATTE FINISH

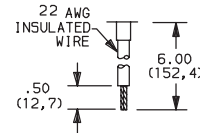


## TERMINATIONS

**03** SOLDER LUG WITH HOLE



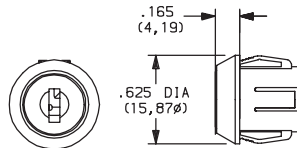
**WC** WIRE LEAD



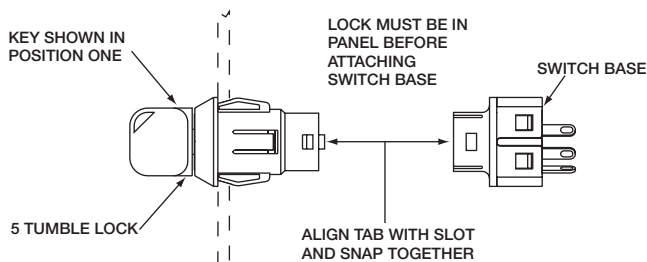
Black wire standard, other colors and lengths available, consult Customer Service Center. UL style 1015.

## LOCK STYLE

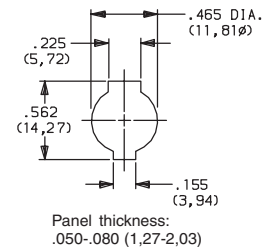
**K** CONE SHAPED FACING



### Switch and Lock Assembly Instructions



### PANEL MOUNTING



**NOTE:** Switch installation is permanent. Switch cannot be removed from lock after assembly. Attempts to separate switch and lock may damage switch.



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



Switchlock

# PF Series 5 Tumbler Miniature Snap-in Switchlocks



## CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT AND TERMINAL MATERIAL	RATING	
<b>Q</b>	YES	YES	SILVER <sup>2</sup>	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
<b>B</b>	YES	YES	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX.

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

<sup>1</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

<sup>2</sup> CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

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

## AVAILABLE HARDWARE



Key Code: 041

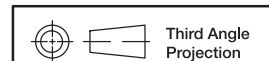
**PART NO. (ONE KEY)**

**334C1004102** BLACK

**Material:** Brass  
Finish: Nickel plate  
6/6 Nylon insert molded head



Switchlock



Third Angle Projection

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

# PM Series

## 5 Tumbler Miniature Snap-in Switchlocks

### Features/Benefits

- International agency listings
- Snap-in mounting
- Wire lead terminations available
- 5 Tumbler lock with positive detent

### Typical Applications

- Computers
- Point-of-sale terminals
- Marine equipment



Models Available

### Specifications

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA); 4 AMPS @ 125 V AC, 2 AMPS @ 250 V AC, T65 (VDE). See page M-33 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

INDEXING: 90°:2 positions.

### Materials

LOCK: 6/6 nylon with matte finish (UL 94V-2), color black, 5 tumbler, single bitted lock with integral detent mechanism.

KEYS: Two nickel plated brass keys with black plastic head, other colors available.

SWITCH HOUSING: 6/6 nylon (UL 94V-2).

CONTACTS & TERMINALS: Q contact material: Copper, silver plated. See page L-33 for additional contact materials.

**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-32 and L-33. For additional options not shown in catalog, consult Customer Service Center.



#### Switch and lock Function

**PM0613** SP, 90°, Index, keypull pos. 1

**PM061U** SP, 90° Index, keypull pos. 1 & 3

#### Keying

**E** Two nickel plated brass keys with insert molded plastic head

#### Lock Type

**B** 5 Tumbler lock with detent

#### Lock Finish

**M** Plastic lock with matte finish

#### Terminations

**05** Quick connect

**WC** Wire lead

#### Lock Style

**K** Cone shaped facing

#### Contact Material

**Q** Silver

**B** Gold

#### Lock Color

**2** Black

#### Key Color

**2** Black



Switchlock



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

# PM Series 5 Tumbler Miniature Snap-in Switchlocks

## SWITCH AND LOCK FUNCTION



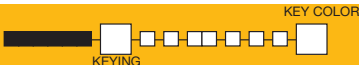
NO. POLES	MODEL NO.	SWITCH FUNCTION		KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
		POS. 1	POS. 2			
SP	PM0613	OFF	ON	Position 1		90°
	PM061U			Positions 1 & 2		
<b>SP</b> <p>Part number shown: PM0613EBM05KQ22</p>						

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

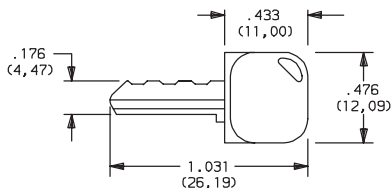
### LEGEND

- = Detent Position (90°)
- ⊙ = Key pull possible in these positions.
- ⊙ = Stop Positions

## KEYING



**E** TWO NICKEL PLATED BRASS KEYS WITH INSERT MOLDED PLASTIC HEAD

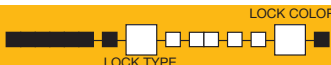


Key part number: 334C1004102

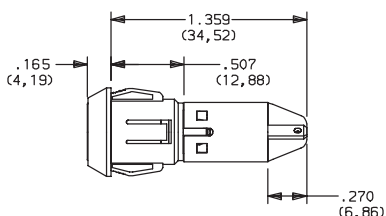
OPTION CODE	KEY COLOR
2	BLACK

**NOTE:** Molded plastic head color is black, standard. For more than one key code, replacement keys, or other special features, consult Customer Service Center.

## LOCK TYPE



**B** 5 TUMBLER LOCK WITH DETENT



OPTION CODE	LOCK COLOR
2	BLACK



Third Angle Projection

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



Switchlock

# PM Series 5 Tumbler Miniature Snap-in Switchlocks

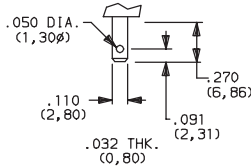
## LOCK FINISH

**M** PLASTIC LOCK WITH MATTE FINISH

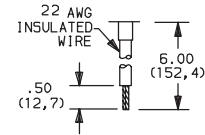


## TERMINATIONS

**05** QUICK CONNECT



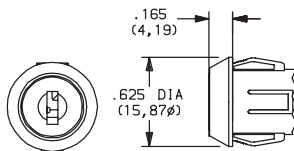
**WC** WIRE LEAD



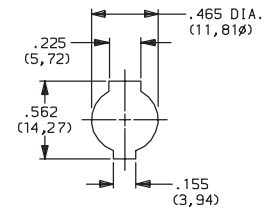
UL style 1015.  
Black wire standard, other colors and lengths available, consult Customer Service Center.

## LOCK STYLE

**K** CONE SHAPED FACING



**PANEL MOUNTING**



Panel thickness:  
.050-.080 (1,27-2,03)

## CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT*	RoHS COMPATIBLE*	CONTACT AND TERMINAL MATERIAL	RATING	
<b>Q</b>	YES	YES	SILVER <sup>2</sup>	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). 4 AMPS @ 125 V AC; or 2 AMPS @ 250 V AC; T65 (VDE).
<b>B</b>	YES	YES	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX.

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

<sup>1</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

<sup>2</sup> CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).

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

## AVAILABLE HARDWARE



Key Code: 041

**PART NO. (ONE KEY)**

**334C1004102** BLACK

**Material:** Brass  
**Finish:** Nickel plate  
6/6 Nylon insert molded head



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



Switchlock

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

**INSULATION RESISTANCE:** 10<sup>9</sup>  $\Omega$  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).

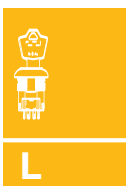
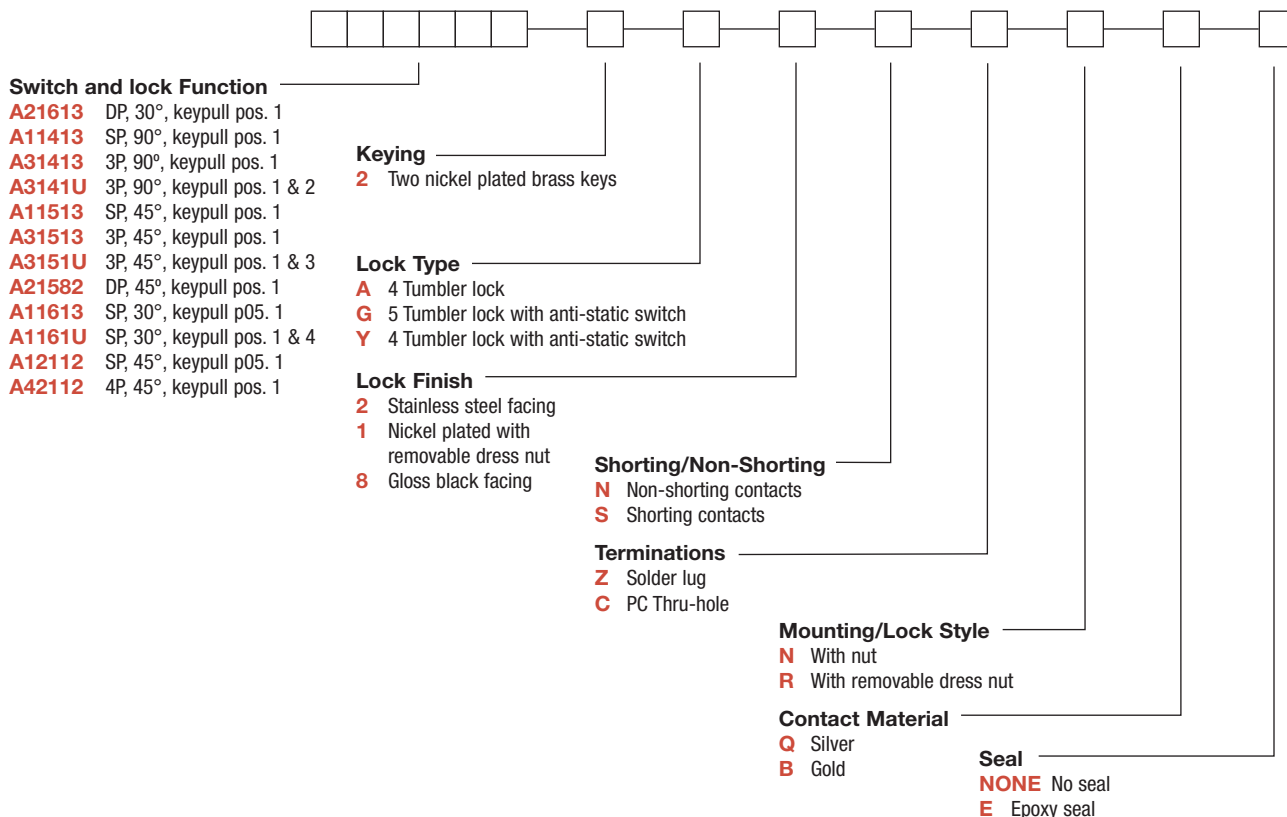
**TERMINAL SEAL:** Epoxy.

**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.



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		90°
3P	<b>A3141U</b>	A-1, B-5, C-9	A-4, B-8, C-12			Positions 1 & 2		
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		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		
DP	<b>A21582</b>	A-4, C-10	A-5, C-11	A-2, C-8		Position 1		
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		30°
SP	<b>A1161U</b> *	A-1	A-2	A-3	A-4	Positions 1 & 4		
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		45°

### LEGEND

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

### TERMINAL NUMBERS



4P MODEL



3P MODEL

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

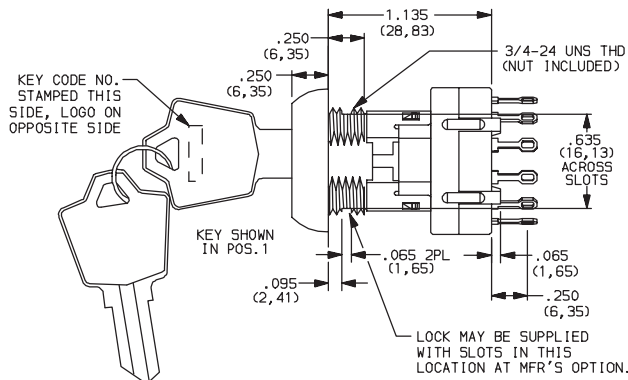
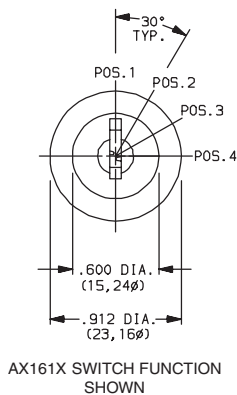
Terminal numbers molded on housing bottom.

**\*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.

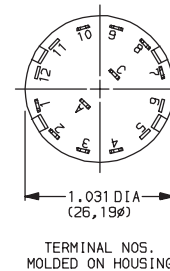
All models with all options when ordered with 'Q' contact material.

AX14 models not available with 'S' shorting contacts.

Switchlock



Part number shown: A116132Y2NZNQ



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

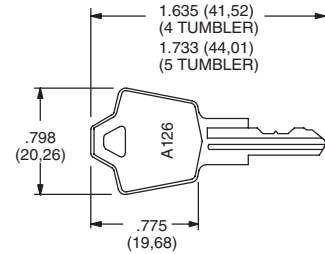


# A Series 4 & 5 Tumbler 1-4 Pole Switchlocks

## 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.



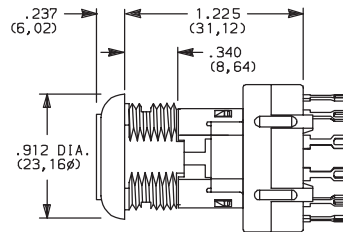
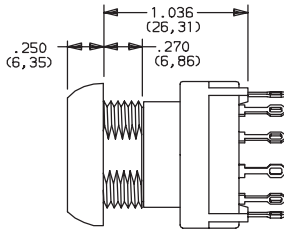
Key part number: 115140126

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

## LOCK TYPE

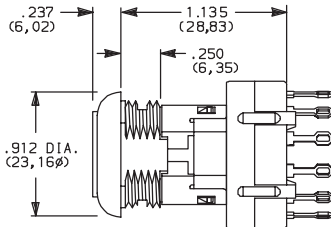
**A** 4 TUMBLER LOCK WITH REMOVABLE DRESS NUT

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



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.



Third Angle Projection

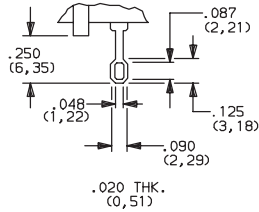
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



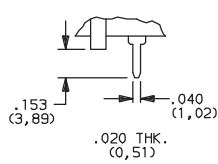
# A Series 4 & 5 Tumbler 1-4 Pole Switchlocks

## TERMINATIONS

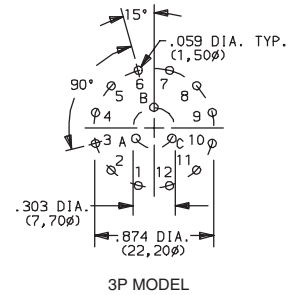
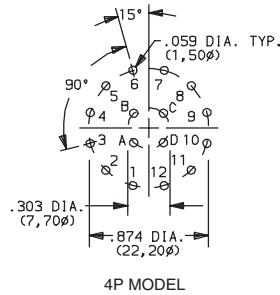
### Z SOLDER LUG



### C PC THRU-HOLE



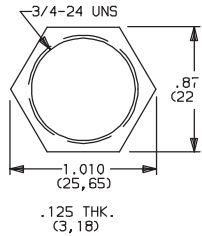
### PC MOUNTING



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

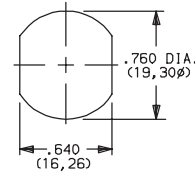
## MOUNTING/LOCK STYLE

### N WITH NUT

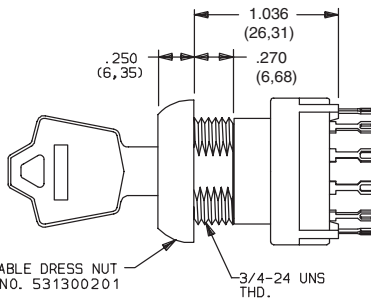
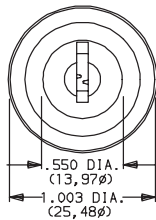


Nut part number: 175050700

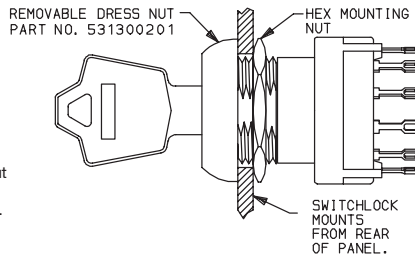
### PANEL MOUNTING



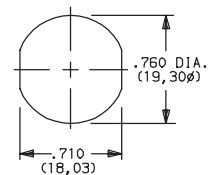
### R REMOVABLE DRESS NUT



REMOVABLE DRESS NUT  
PART NO. 531300201



### 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.



Third Angle  
Projection

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



Switchlock

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

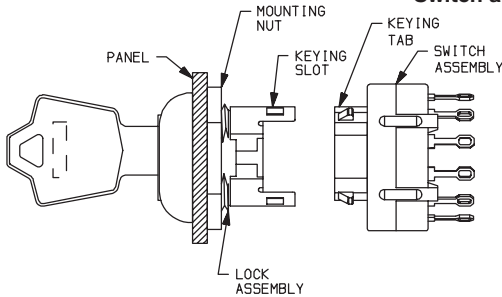
## MOUNTING/LOCK STYLE

### 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.

AVAILABLE OPTION COMBINATIONS						
MOUNTING STYLES	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	
<b>Q</b>	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>B</b>	YES	YES	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX.

<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).

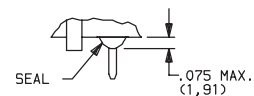
\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

All models   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



Switchlock

# H Series

## 4 & 6 Tumbler Power Switchlocks

### Features/Benefits

- Positive detent
- Multi-pole and multi-position
- Snap-together assembly
- Power switching

### Typical Applications

- Machine controls
- Elevators



### Specifications

CONTACT RATING: Q contact material: 12 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). See page M-42 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>9</sup> Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

INDEXING: 45° or 90°, 2-4 Positions.

**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.

### Materials

LOCK: Zinc alloy with stainless steel facing (4 tumbler locks and 6 tumbler tubular lock).

KEYS: Two nickel plated brass keys with code number (4 tumbler). Two die cast chrome plated zinc alloy keys (6 tumbler).

SWITCH HOUSING: 6/6 nylon (UL 94V-2).

CONTACTS & TERMINALS: Q contact material: Copper, silver plated. See page L-42 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Zinc alloy.

MOUNTING CLIP: Steel, zinc plated.

DRESS NUT: Brass, nickel plated.

TERMINAL SEAL: Epoxy.

### 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-40 through L-42. For additional options not shown in catalog, consult Customer Service Center.



#### Switch and Lock Function

- H10113** SP, 90° Index, keypull pos.1
- H2011U** DP, 90° Index, keypull pos. 1 & 2
- H100AA** SP, 45° Index, keypull pos. 1,2 & 3
- H200AA** DP, 45° Index, keypull pos. 1, 2 & 3
- H20113** DP, 90° Index, keypull pos. 1
- H1011U** SP, 90° Index, keypull pos.1 & 2
- H1417U** SP, 90° Index, keypull pos. 1,2 & 3

#### Keying

- 2** Two nickel plated brass keys (4 tumbler) or two die cast zinc alloy keys with chrome plating (6 tumbler)
- T** One nickel plated brass key with plastic insert molded square head and one nickel plated brass key

#### Lock Type

- F** 4 Tumbler lock with detent
- V** 6 Tumbler tubular lock

#### Lock Finish

- 2** Stainless steel facing
- 8** Gloss black facing

#### Terminations

- 05** Quick connect
- WC** Wire lead

#### Mounting/Lock Style

- N** With nut
- D** With clip

#### Contact Material

- Q** Silver
- B** Gold

#### Key Color

- NONE** Nickel plated brass (4 tumbler) or chrome plated zinc alloy (6 tumbler)
- 2** Black



Switchlock



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

# H Series 4 & 6 Tumbler Power Switchlocks

## SWITCH AND LOCK FUNCTION

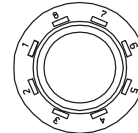
NO. TUMBLERS	NO. POLES	MODEL NO.	CONNECTED TERMINALS				KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
			POS. 1	POS. 2	POS. 3	POS. 4			
4	SP DP	<b>H100AA</b> <b>H200AA</b>	7-8 7-8, 3-4	8-1 8-1, 4-5	6-7 6-7, 2-3		Positions 1, 2 & 3		45°
4 & 6	SP DP	<b>H10113</b> <b>H20113</b>	7-8 7-8, 3-4	8-2 8-2, 4-6			Position 1		
4 & 6	SP DP	<b>H1011U</b> <b>H2011U</b>	7-8 7-8, 3-4	8-2 8-2, 4-6			Positions 1 & 2		90°
4	SP	<b>H1417U</b>	6-8	8-2	5-6		Positions 1, 2 & 3		

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

### TERMINAL NUMBERS

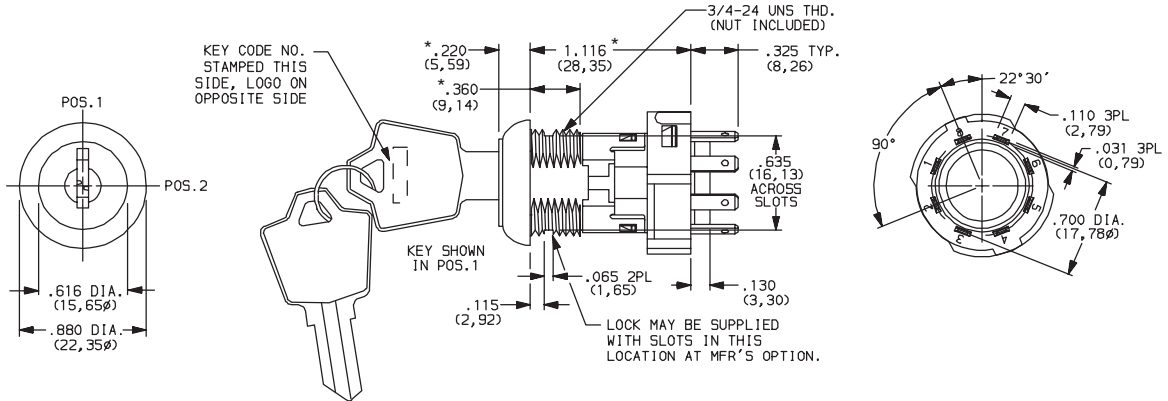
#### LEGEND

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



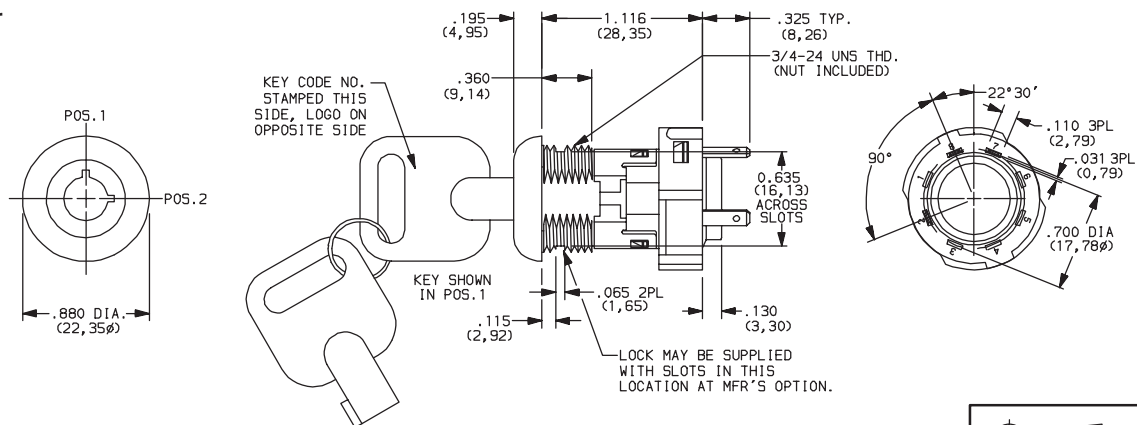
Terminal numbers molded on housing.

### 4 Tumbler



Part number shown: H101132F205NQ

### 6 Tumbler



Part number shown: H1011U2V205NQ



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



# H Series 4 & 6 Tumbler Power Switchlocks

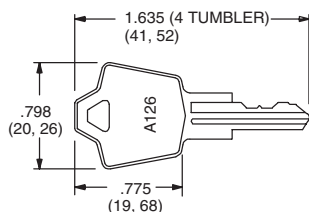
## KEYING

OPTION CODE	KEY OPTIONS	CODE NO. ON KEY	CODE NO. ON LOCK
<b>2</b>	2 NICKEL PLATED BRASS KEYS (4 TUMBLER) OR 2 CHROME PLATED ZINC ALLOY KEYS (6 TUMBLER)	YES	NO
<b>T</b>	1 NICKEL PLATED BRASS KEY WITH PLASTIC INSERT MOLDED SQUARE HEAD & 1 NICKEL PLATED BRASS KEY	YES	NO

OPTION CODE	KEY COLOR
<b>NONE</b>	NICKEL PLATED BRASS (4 TUMBLER) OR CHROME PLATED ZINC ALLOY (6 TUMBLER)
<b>2</b>	BLACK

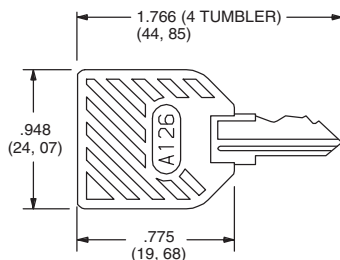
**NOTE:** All orders keyed alike, standard. For more than one key code, replacement keys, or other special features, consult Customer Service Center.

### NICKEL PLATED BRASS KEY



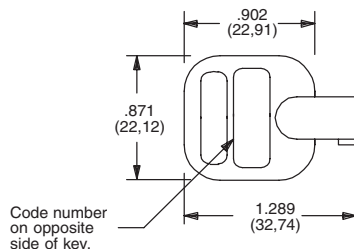
Key part number: 115140126

### NICKEL PLATED BRASS KEY WITH PLASTIC INSERT MOLDED SQUARE HEAD



Key part number: 11599112602

### CHROME PLATED ZINC ALLOY KEY

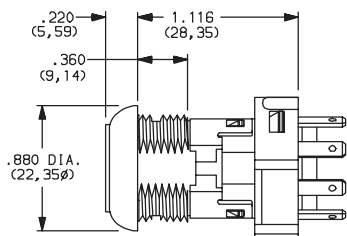


Key part number: 363C1AAAA

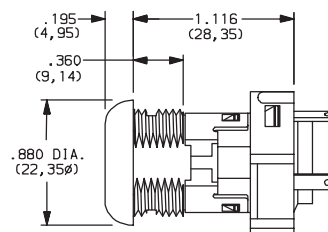
**NOTE:** Key head shape subject to change without notice.

## LOCK TYPE

### F 4 TUMBLER LOCK WITH ADDED DETENT



### V 6 TUMBLER TUBULAR LOCK



## LOCK FINISH

### 2 STAINLESS STEEL FACING



Available with V lock type only.

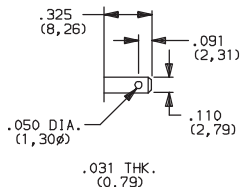
### 8 GLOSS BLACK FACING



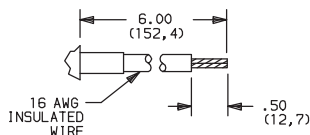
Switchlock

## TERMINATIONS

### 05 .110" QUICK CONNECT



### WC WIRE LEAD



Black wire standard, other colors, gages and lengths available, consult Customer Service Center. UL style 1015.



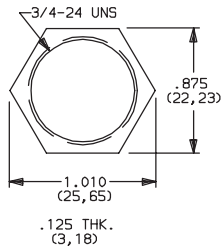
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



# H Series 4 & 6 Tumbler Power Switchlocks

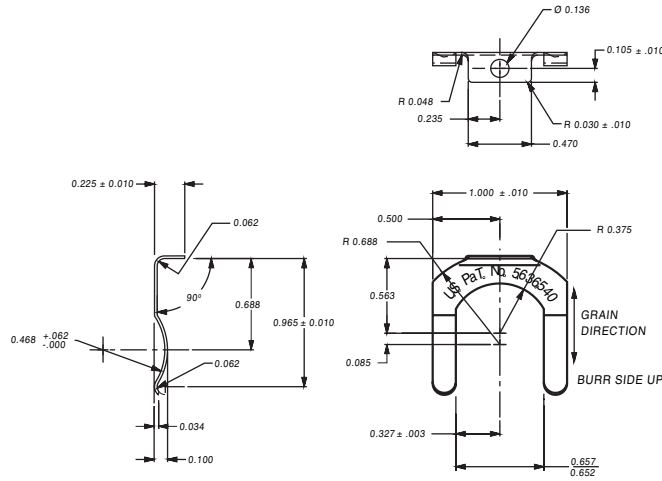
## MOUNTING/LOCK STYLE

**N** WITH NUT



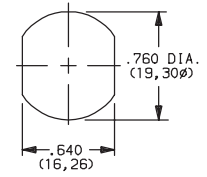
Nut part number: 175050700

**D** WITH CLIP



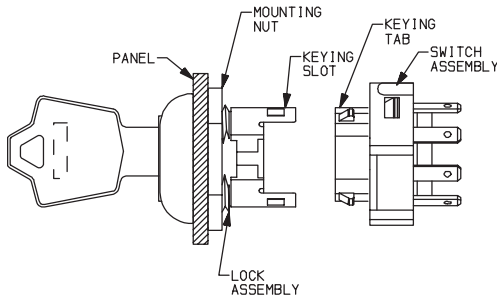
Clip part number: 906B00000

PANEL MOUNTING



MOUNTING STYLES	PANEL THICKNESS
D	.065-.085 (1,65-2,16)
N	.195 (4,95) max.

## 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	12 AMPS @ 125 V AC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA).
<b>Q</b>	YES	YES	SILVER <sup>2</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX.
<b>B</b>	YES	YES	GOLD <sup>1</sup>		

<sup>1</sup> CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.  
<sup>2</sup> CONTACTS & TERMINALS: Copper, silver plated.

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

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



Third Angle Projection

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



# H Series 4 & 6 Tumbler Power Switchlocks

## AVAILABLE HARDWARE



Key Code: A126  
4 TUMBLER  
**PART NO. (ONE KEY)**  
**115140126**  
**Material:** Brass  
Finish: Nickel plate



Key Code: AAAA  
**PART NO. (ONE KEY)**  
**363C1AAAA**

**Material:** Zinc Alloy  
Finish: Chrome plate



Key Code: A126  
4 TUMBLER  
**PART NO. (ONE KEY)**  
**1159112602** BLACK

**Material:** Brass  
Finish: Nickel plate  
6/6 Nylon insert molded head



Switchlock

# PL Series 5 Tumbler Miniature Camlocks



## Features/Benefits

- **Cost-effective security**
- **Custom cams available**

## Typical Applications

- **Office furniture**
- **Cash registers**
- **Copy machines**

## Specifications

INDEXING: 90°: 2 positions.

**NOTE:** Specifications and materials listed above are for camlocks with standard options. For information on specific and custom camlocks, consult Customer Service Center.

## Materials

LOCK: 6/6 nylon (UL 94V-2). Color, black.

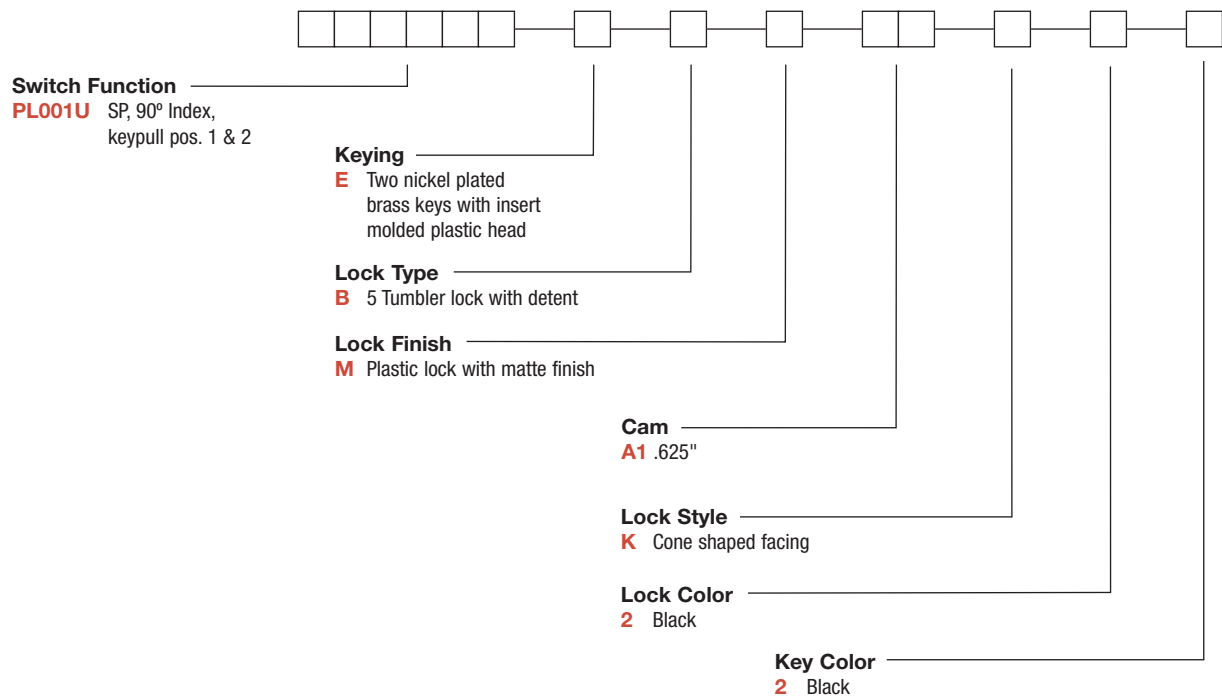
5 tumbler, single bitted lock with integral detent mechanism.

KEYS: Two nickel plated brass keys with black plastic insert molded head.

CAM: 6/6 nylon (UL 94V-2).

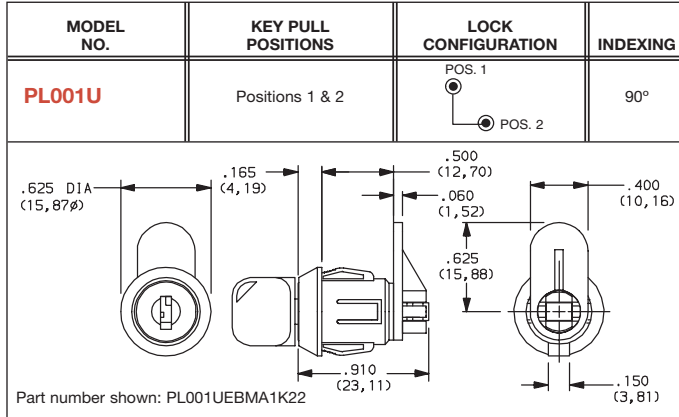
## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages L-45 and L-46. For additional options not shown in catalog, consult Customer Service Center.



# PL Series 5 Tumbler Miniature Camlocks

## LOCK FUNCTION

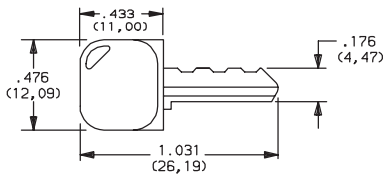


### LEGEND

- = Detent Position (90°)
- ⊙ = Key pull possible in these positions.
- ⊙ = Stop Positions

## KEYING

**E** TWO NICKEL PLATED BRASS KEYS WITH INSERT MOLDED PLASTIC HEAD



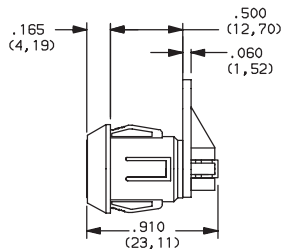
Key part number: 334C1004102

OPTION CODE	KEY COLOR
<b>2</b>	BLACK

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

## LOCK TYPE

**B** 5 TUMBLER LOCK WITH DETENT



OPTION CODE	LOCK COLOR
<b>2</b>	BLACK

## LOCK FINISH

**M** PLASTIC LOCK WITH MATTE FINISH



Third Angle  
Projection

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

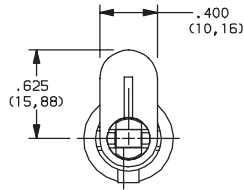


Switchlock

# PL Series 5 Tumbler Miniature Camlocks

## CAM

**A1** .625"

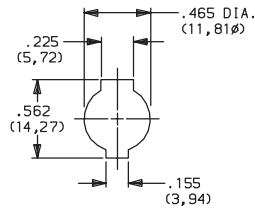
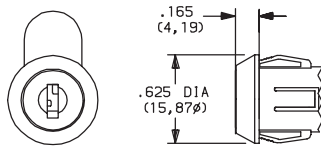


**NOTE:** Cam not assembled to switch. Other cam lengths and styles available, consult Customer Service Center.

## LOCK STYLE

**K** CONE SHAPED FACING

PANEL MOUNTING



Panel thickness: .050-.080 (1,27-2,03)

## AVAILABLE HARDWARE



Key Code: 041

**PART NO.** (ONE KEY)

**334C1004102** BLACK

**Material:** Brass  
**Finish:** Nickel plate  
6/6 Nylon insert molded head



Third Angle Projection

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

