

# Y Series 4, 5 & 6 Tumbler Switchlocks

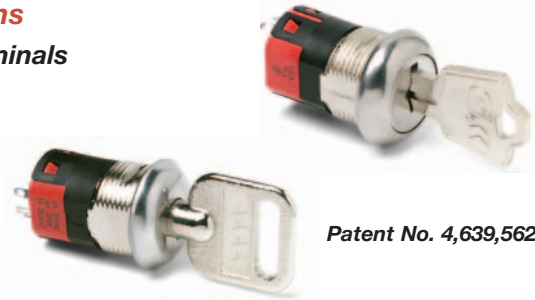
## Features/Benefits

- **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 L-9 for additional ratings.

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

CONTACT RESISTANCE: Below 10 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.

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.

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



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



Switchlock

Y Series  
4, 5 & 6 Tumbler Switchlocks

SWITCH AND LOCK FUNCTION

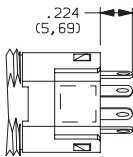
| SINGLE & DOUBLE POLE SWITCHES           |           |                  |                     |                 |                 |                 |                       |                    |          |
|-----------------------------------------|-----------|------------------|---------------------|-----------------|-----------------|-----------------|-----------------------|--------------------|----------|
| 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        | Y10013           | 8-1                 | 1-2             | 2-3             |                 | Position 1            |                    | 45°      |
| 4, 5 & 6                                | SP DP     | Y1001U<br>Y2001U | 8-1<br>8-1, 4-5     | 1-2<br>1-2, 5-6 | 2-3<br>2-3, 6-7 |                 | Positions 1 & 3       |                    |          |
| 4 & 5                                   | SP DP     | Y10082<br>Y20082 | 8-1<br>8-1, 4-5     | 1-2<br>1-2, 5-6 | 7-8<br>7-8, 3-4 |                 | Position 1            |                    |          |
| 4                                       | SP DP     | Y100AA<br>Y200AA | 8-1<br>8-1, 4-5     | 1-2<br>1-2, 5-6 | 7-8<br>7-8, 3-4 |                 | Positions 1, 2 & 3    |                    |          |
| 4                                       | SP DP     | Y100AB<br>Y200AB | 8-1<br>8-1, 4-5     | 1-2<br>1-2, 5-6 | 2-3<br>2-3, 6-7 | 3-4<br>3-4, 7-8 | Positions 1, 2, 3 & 4 |                    |          |
| 4, 5 & 6                                | SP DP     | Y10113<br>Y20113 | 8-1<br>8-1, 4-5     | 1-3<br>1-3, 5-7 |                 |                 | Position 1            |                    | 90°      |
| 4 & 5                                   | SP DP     | Y1011C<br>Y2011C | 8-1<br>8-1, 4-5     | 1-3<br>1-3, 5-7 |                 |                 | Position 2            |                    |          |
| 4, 5 & 6                                | SP DP     | Y1011U<br>Y2011U | 8-1<br>8-1, 4-5     | 1-3<br>1-3, 5-7 |                 |                 | Positions 1 & 2       |                    |          |
| 4                                       | SP        | Y14173           | 7-1                 | 1-3             | 6-7             |                 | Position 1            |                    |          |
| 4                                       | SP        | Y1417U           | 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     | Y10812<br>Y20812 | 8-1<br>8-1, 4-5     | 1-2<br>1-2, 5-6 |                 |                 | Position 1            |                    | 45° Mom. |



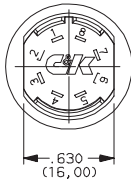
Switchlock

LEGEND

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

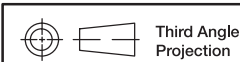


TERMINAL NUMBERS



Terminal numbers molded on bottom of housing.

All models **C&K** 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

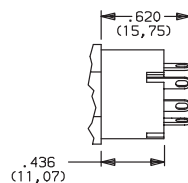
## SWITCH AND LOCK FUNCTION



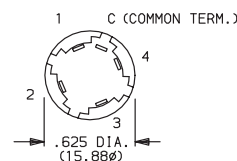
| SINGLE POLE SWITCHES WITH COMMON |           |           |                     |        |        |        |                       |                    |          |
|----------------------------------|-----------|-----------|---------------------|--------|--------|--------|-----------------------|--------------------|----------|
| 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

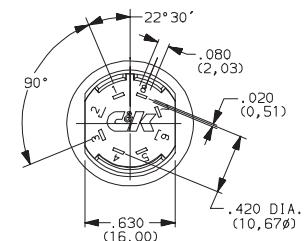
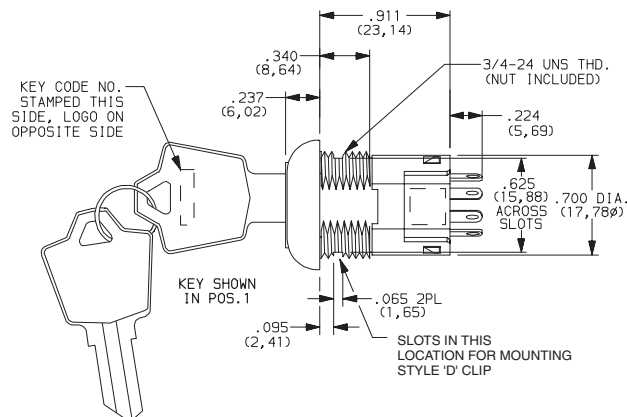
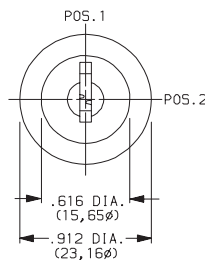


Terminal numbers marked on insulator.

All models **C&K** with all options when ordered with 'G' or 'Q' contact material.

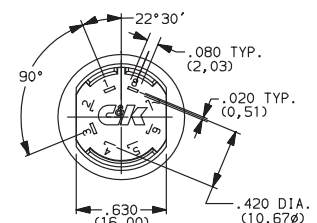
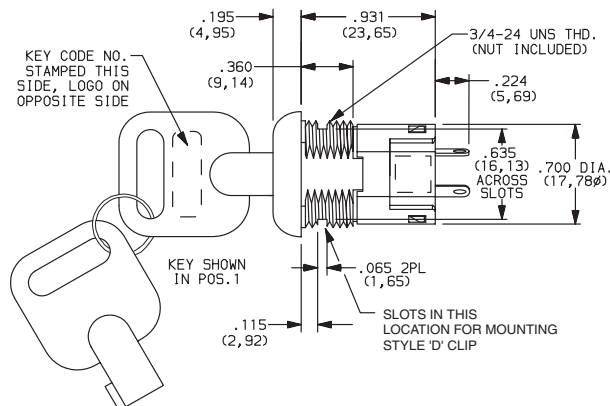
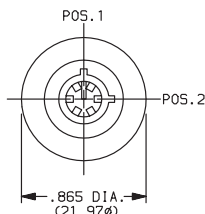
**NOTE:** Epoxy seal not available. Removable dress nut not available with any Y190XX models.

### 4 & 5 Tumbler



Part number shown: Y100132C203NQ

### 6 Tumbler



Part number shown: Y1011U2V203NQ



Third Angle  
Projection

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



Y Series  
4, 5 & 6 Tumbler Switchlocks

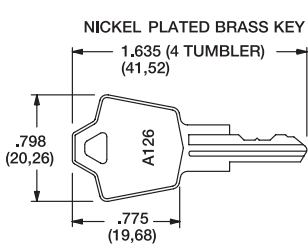
SWITCH AND LOCK FUNCTION

| 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                        |            |   | ● | ● |   |   |              | ●  |    | ●  | ●  | ●                    |   | ● |   |

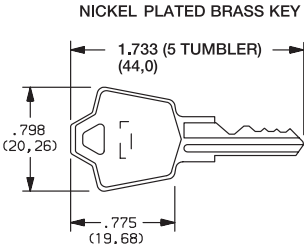
KEYING

| 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              |

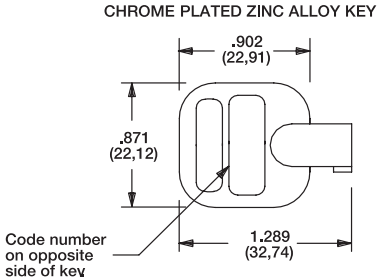
NOTE: All orders keyed alike, standard. For more than one key code, master keying, replacement keys, or other special features, consult Customer Service Center.



Key part number: 115140126



Key part number: 115441001

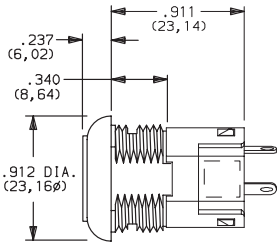


Key part number: 363C1AAAA

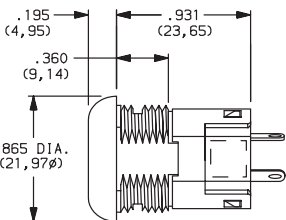
NOTE: Keys are available separately, see page L-10. Key head shape subject to change without notice.

LOCK TYPE

C 4 TUMBLER LOCK WITH DETENT  
B 5 TUMBLER LOCK

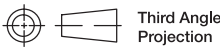
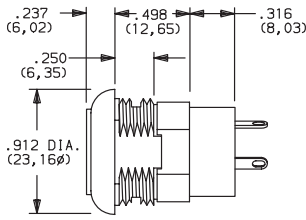


V 6 TUMBLER TUBULAR LOCK



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

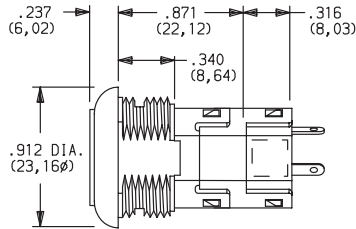


# Y Series 4, 5 & 6 Tumbler Switchlocks

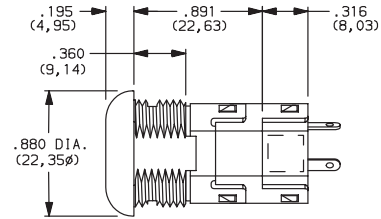
## LOCK TYPE

### 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

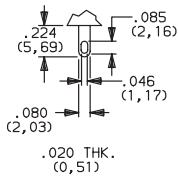


Available with Lock Types 'V' & 'W' only.

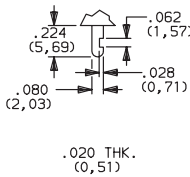
**NOTE:** For available option combinations, see page L-9.

## TERMINATIONS

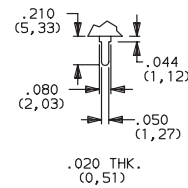
**03** SOLDER LUG WITH HOLE



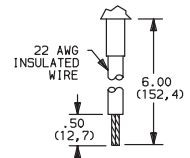
**01** SOLDER LUG WITH NOTCH



**02** PC THRU-HOLE



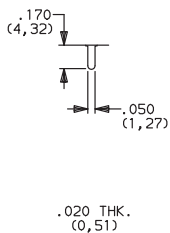
**WC** WIRE LEAD



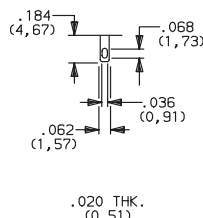
Black wire standard. other colors and lengths available, consult Customer Service Center. UL style 1015.

### All Models Except Y190

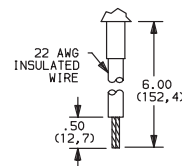
**02** PC THRU-HOLE



**07** SOLDER LUG WITH HOLE

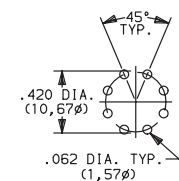


**WC** WIRE LEAD



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

### PC MOUNTING



### Y190 Model Only



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



Switchlock

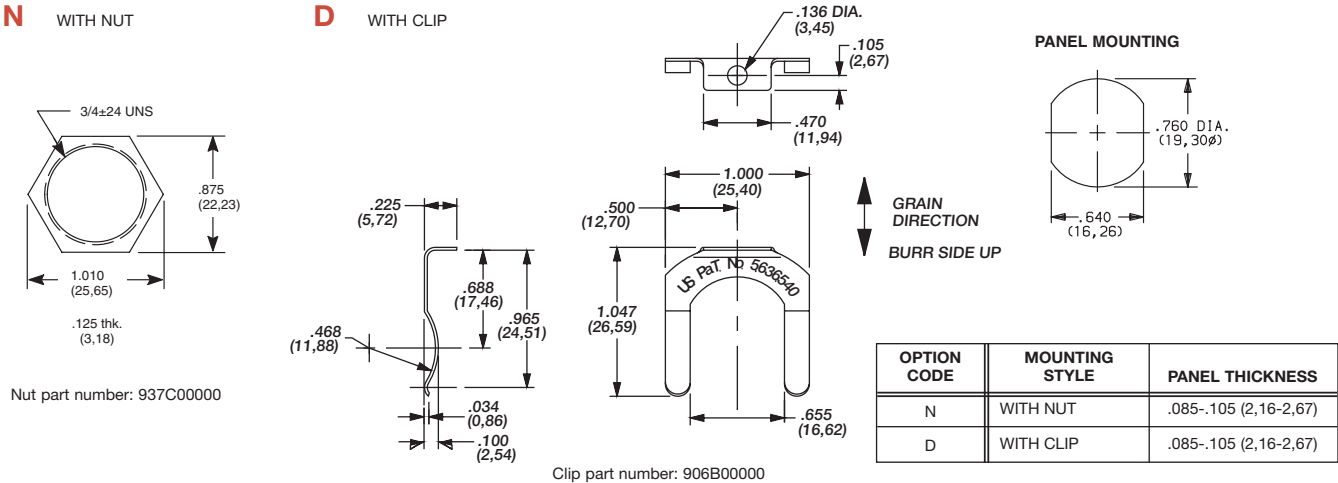
# Y Series

## 4, 5 & 6 Tumbler Switchlocks

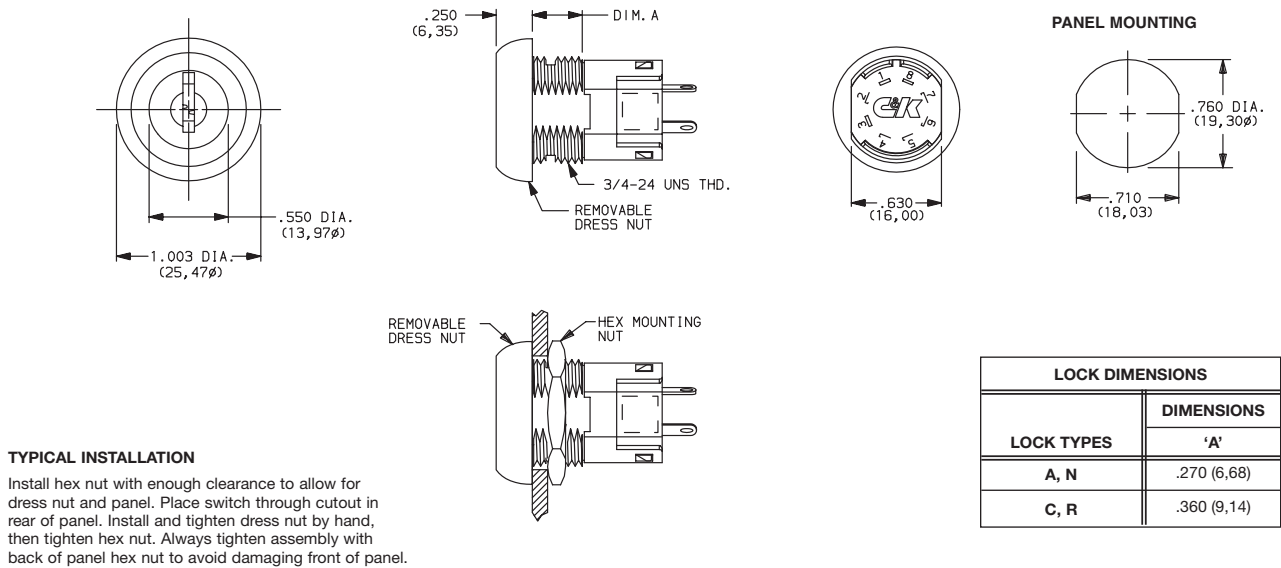
### MOUNTING/LOCK STYLE

**N** WITH NUT

**D** WITH CLIP

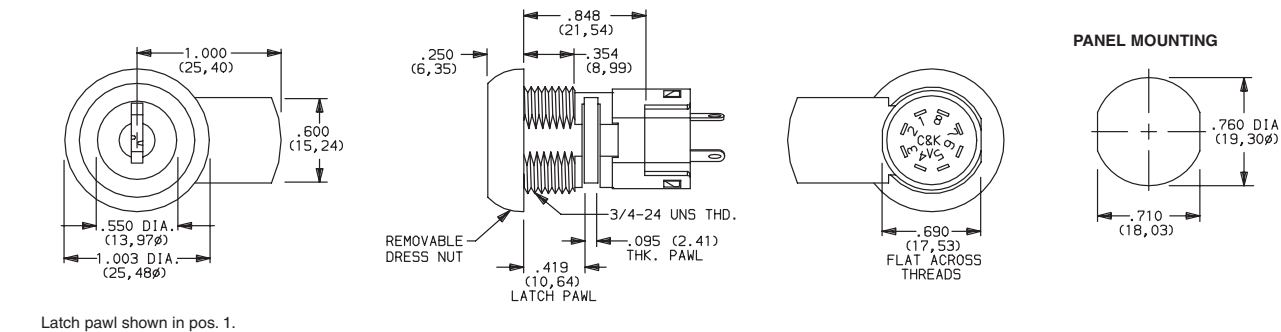


**R** REMOVABLE DRESS NUT

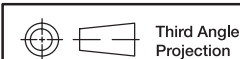


**NOTE:** Removable dress nut not available with Y1900A or Y100AA model options.

**L** REMOVABLE DRESS NUT WITH LATCH PAWL



Latch pawl shown in pos. 1.



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;<br>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<br>OR POWER | 0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC<br>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.



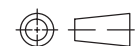
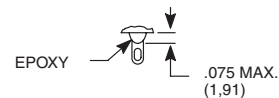
Switchlock

## SEAL



**NONE** NO SEAL

**E** EPOXY SEAL



Third Angle  
Projection

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

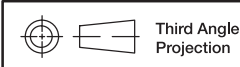


Key Code: AAAA  
**PART NO. (ONE KEY)**  
**363C1AAAA**

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



Switchlock



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