

# Y Series 4, 5 & 6 Tumbler Switchlocks

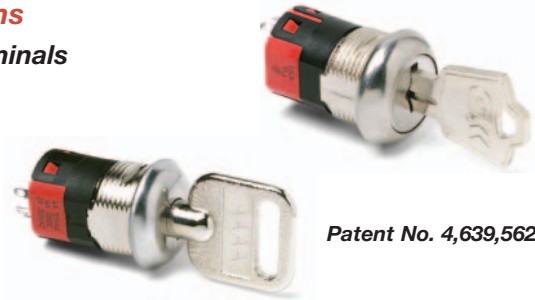
## Features/Benefits

- **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

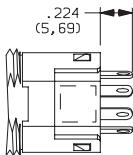
| SINGLE & DOUBLE POLE SWITCHES           |           |                  |                     |                 |                 |                 |                       |                    |          |
|-----------------------------------------|-----------|------------------|---------------------|-----------------|-----------------|-----------------|-----------------------|--------------------|----------|
| 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. |



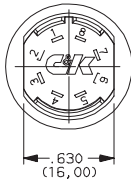
Switchlock

LEGEND

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

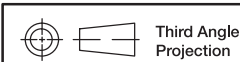


TERMINAL NUMBERS



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

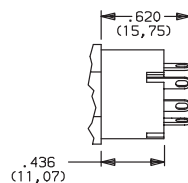
## SWITCH AND LOCK FUNCTION



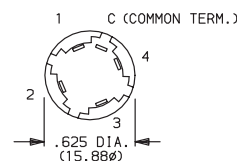
| SINGLE POLE SWITCHES WITH COMMON |           |           |                     |        |        |        |                       |                    |          |
|----------------------------------|-----------|-----------|---------------------|--------|--------|--------|-----------------------|--------------------|----------|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

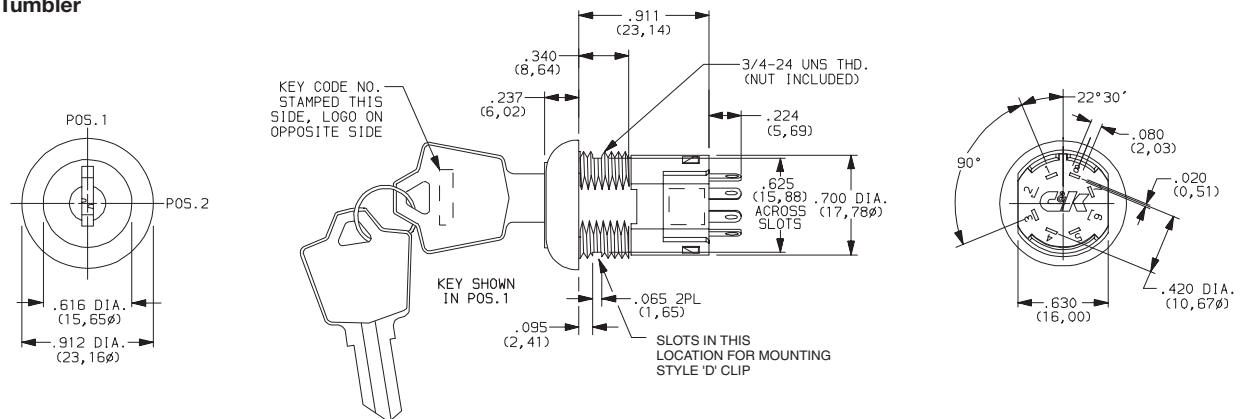


Terminal numbers marked on insulator.

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

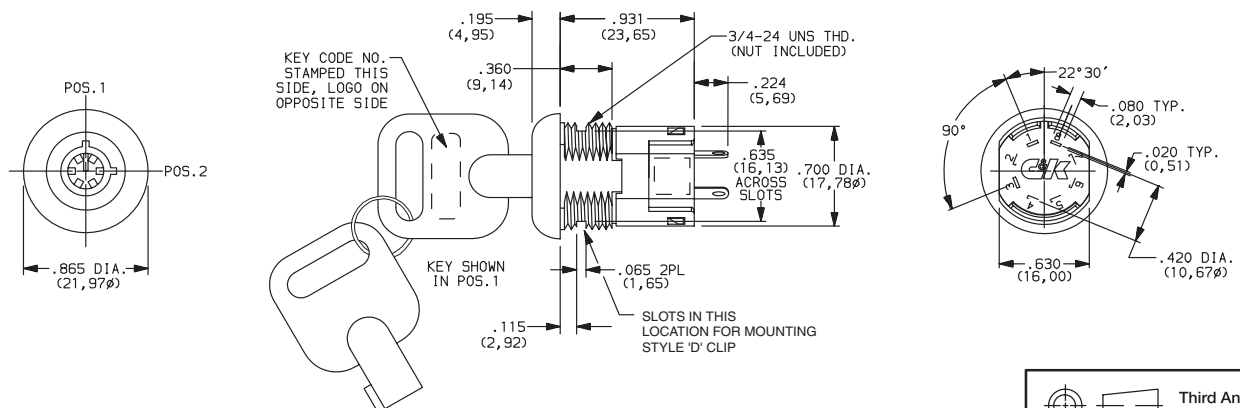
**NOTE:** Epoxy seal not available. Removable dress nut not available with any Y190XX models.

### 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

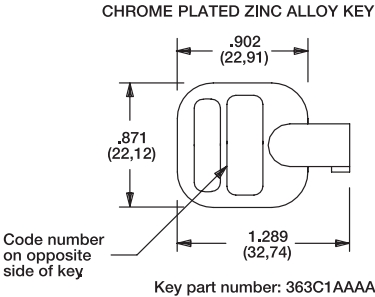
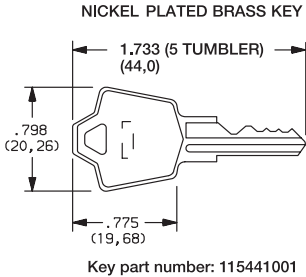
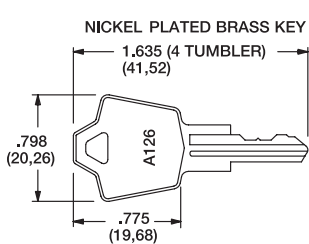
### SWITCH AND LOCK FUNCTION

| 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              |

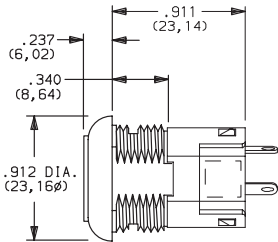
NOTE: All orders keyed alike, standard. For more than one key code, master keying, replacement keys, or other special features, consult Customer Service Center.



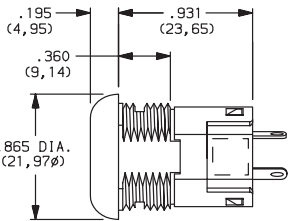
NOTE: Keys are available separately, see page L-10. Key head shape subject to change without notice.

### LOCK TYPE

C 4 TUMBLER LOCK WITH DETENT  
B 5 TUMBLER LOCK

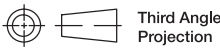
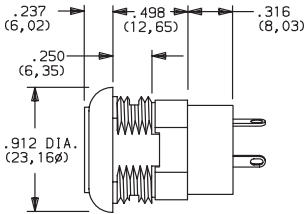


V 6 TUMBLER TUBULAR LOCK



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

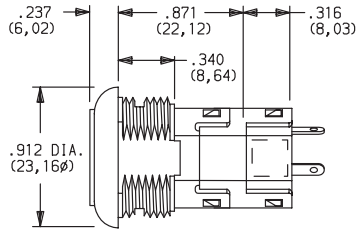


# Y Series 4, 5 & 6 Tumbler Switchlocks

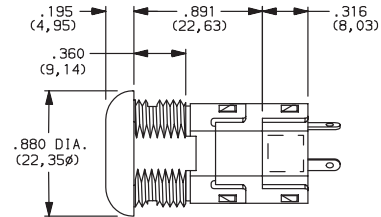
## LOCK TYPE

### 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



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

**8** GLOSS BLACK



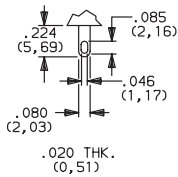
**F** POLISHED NICKEL



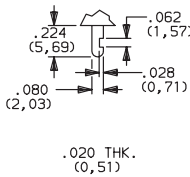
**NOTE:** For available option combinations, see page L-9.

## TERMINATIONS

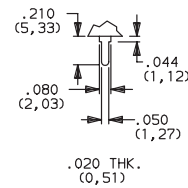
**03** SOLDER LUG WITH HOLE



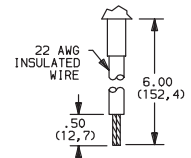
**01** SOLDER LUG WITH NOTCH



**02** PC THRU-HOLE



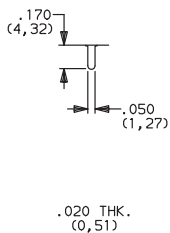
**WC** WIRE LEAD



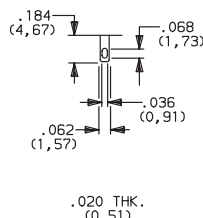
Black wire standard. other colors and lengths available, consult Customer Service Center. UL style 1015.

### All Models Except Y190

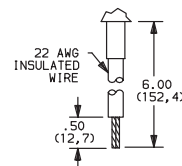
**02** PC THRU-HOLE



**07** SOLDER LUG WITH HOLE

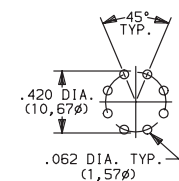


**WC** WIRE LEAD



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

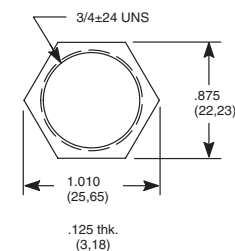
# Y Series

## 4, 5 & 6 Tumbler Switchlocks

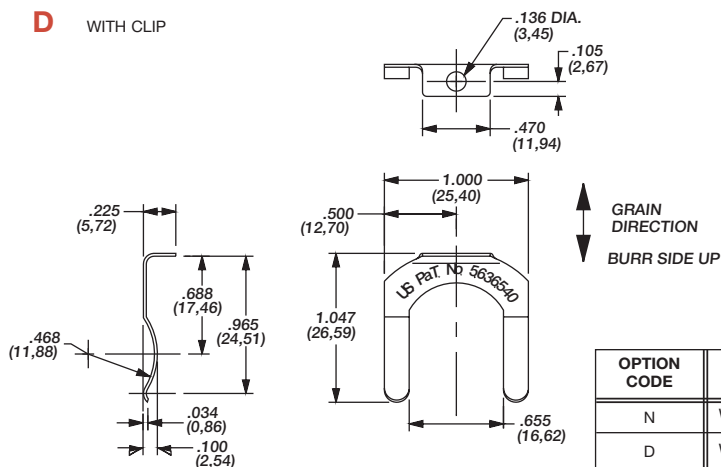
### MOUNTING/LOCK STYLE

**N** WITH NUT

**D** WITH CLIP

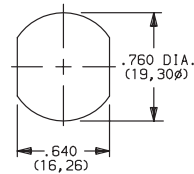


Nut part number: 937C00000



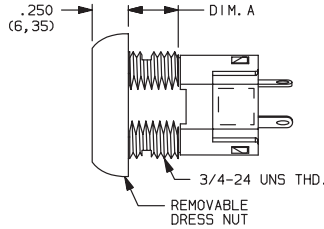
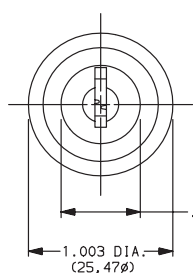
Clip part number: 906B00000

#### PANEL MOUNTING

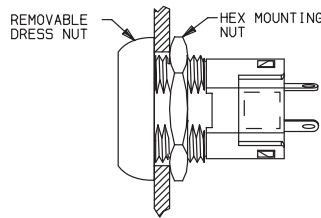
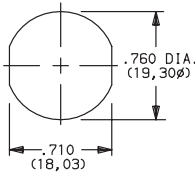


| OPTION CODE | MOUNTING STYLE | PANEL THICKNESS       |
|-------------|----------------|-----------------------|
| N           | WITH NUT       | .085-.105 (2,16-2,67) |
| D           | WITH CLIP      | .085-.105 (2,16-2,67) |

**R** REMOVABLE DRESS NUT



#### PANEL MOUNTING



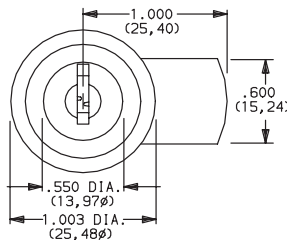
#### TYPICAL INSTALLATION

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.

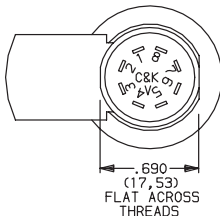
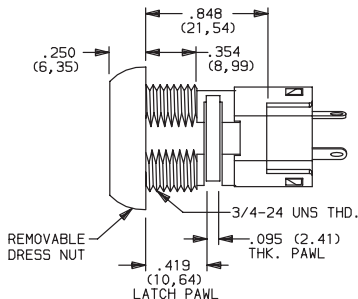
| LOCK DIMENSIONS |             |
|-----------------|-------------|
| LOCK TYPES      | DIMENSIONS  |
|                 | 'A'         |
| A, N            | .270 (6,68) |
| C, R            | .360 (9,14) |

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

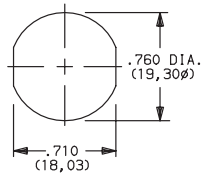
**L** REMOVABLE DRESS NUT WITH LATCH PAWL



Latch pawl shown in pos. 1.



#### PANEL MOUNTING



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.



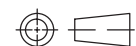
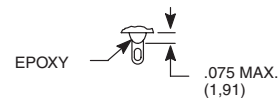
Switchlock

## 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

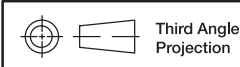


Key Code: AAAA  
**PART NO. (ONE KEY)**  
**363C1AAAA**

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



Switchlock



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