Y Series
4, 5 & 6 Tumbler Switchlocks

Features/Benefits

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

Typical Applications

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





Patent No. 4,639,562

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 L-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: 10^9 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.

OPERATING TEMPERATURE: -30°C to 85°C.

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.

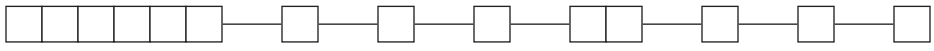
TERMINAL SEAL: Epoxy.

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
- **Y10013** SP, 45°, keypull pos. 1
- **Y1011U** SP, 90°, keypull pos. 1 & 2
- **Y1001U** SP, 45°, keypull pos. 1 & 3
- **Y2001U** DP, 45°, keypull pos. 1 & 3
- **Y10082** SP, 45°, keypull pos. 1
- **Y20082** DP, 45°, keypull pos. 1
- **Y100AA** SP, 45°, keypull pos. 1, 2 & 3
- **Y200AA** DP, 45°, keypull pos. 1, 2 & 3
- **Y100AB** SP, 45°, keypull pos. 1, 2, 3 & 4
- **Y200AB** DP, 45°, keypull pos. 1, 2, 3 & 4
- **Y10113** SP, 90°, keypull pos. 1
- **Y20113** DP, 90°, keypull pos. 1
- **Y1011C** SP, 90°, keypull pos.2
- **Y2011C** DP, 90°, keypull pos. 2
- **Y2011U** DP, 90°, keypull pos. 1 & 2
- **Y14173** SP, 90°, keypull pos. 1
- **Y1417U** SP, 90°, keypull pos. 1,2 & 3
- **Y10812** SP, 45°, mom., keypull pos. 1
- **Y20812** DP, 45°, mom., keypull pos. 1
- **Y19073** SP w/common, 90°, keypull pos. 1
- **Y1907U** SP w/common, 90°, keypull pos. 1, 2 & 3
- **Y1900S** SP w/common, 90°, keypull pos. 1, 2, 3 & 4

Keying
- **2** Two nickel plated brass keys (4 & 5 tumbler) or two die cast zinc alloy keys with chrome plating (6 tumbler)
- **6** Two nickel plated brass keys with code on lock face

Lock Type
- **A** 4 Tumbler lock (YX08 models)
- **C** 4 Tumbler lock with detent
- **V** 6 Tumbler tubular lock
- **B** 5 Tumbler lock
- **R** 4 Tumbler lock with detent and anti-Static switch
- **W** 6 Tumbler tubular lock with anti-Static switch

Lock Finish
- **2** Stainless steel facing
- **8** Gloss black facing
- **F** Polished nickel facing

Terminations
- **03** Solder lug with hole
- **01** Solder lug with notch
- **02** PC Thru-hole
- **07** Solder lug with hole (Y190XX models only)
- **WC** Wire lead

Mounting/Lock Style
- **N** With nut
- **D** With clip
- **L** With removable dress nut and latch pawl
- **R** With removable dress nut

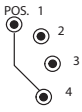
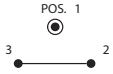
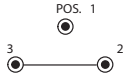
Contact Material
- **Q** Silver
- **B** Gold
- **G** Gold over silver

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

Y Series
4, 5 & 6 Tumbler Switchlocks

SWITCH AND LOCK FUNCTION

SINGLE & DOUBLE POLE SWITCHES

NO. TUMBLERS	NO. POLES	MODEL NO.	CONNECTED TERMINALS POS. 1	POS. 2	POS. 3	POS. 4	KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
4, 5 & 6	SP	**Y10013**	8-1	1-2	2-3		Position 1		45°
4, 5 & 6	SP DP	**Y1001U** **Y2001U**	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	**Y10082** **Y20082**	8-1 8-1, 4-5	1-2 1-2, 5-6	7-8 7-8, 3-4		Position 1		
4	SP DP	**Y100AA** **Y200AA**	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	**Y100AB** **Y200AB**	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	**Y10113** **Y20113**	8-1 8-1, 4-5	1-3 1-3, 5-7			Position 1		90°
4 & 5	SP DP	**Y1011C** **Y2011C**	8-1 8-1, 4-5	1-3 1-3, 5-7			Position 2		
4, 5 & 6	SP DP	**Y1011U** **Y2011U**	8-1 8-1, 4-5	1-3 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		

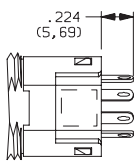
SINGLE & DOUBLE POLE MOMENTARY SWITCHES

NO. TUMBLERS	NO. POLES	MODEL NO.	CONNECTED TERMINALS POS. 1	POS. 2	POS. 3	POS. 4	KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
4	SP DP	**Y10812** **Y20812**	8-1 8-1, 4-5	1-2 1-2, 5-6			Position 1		45° Mom.

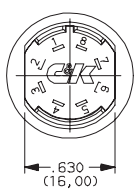
LEGEND

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





TERMINAL NUMBERS



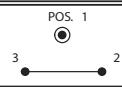
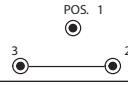
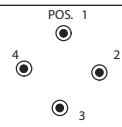
Terminal numbers molded on bottom of housing.

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

Third Angle Projection

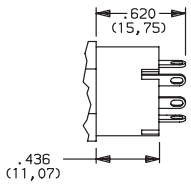
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

SWITCH AND LOCK FUNCTION

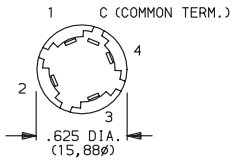
SINGLE POLE SWITCHES WITH COMMON									
NO. TUMBLERS	NO. POLES	MODEL NO.	CONNECTED TERMINALS POS. 1	POS. 2	POS. 3	POS. 4	KEY PULL POSITIONS	LOCK CONFIGURATION	INDEXING
4	SP	Y19073	C-1	C-2	C-4		Position 1		90°
		Y1907U					Positions 1, 2 & 3		
		Y1900S	C-1	C-2	C-3	C-4	Positions 1, 2, 3 & 4		

LEGEND

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



TERMINAL NUMBERS

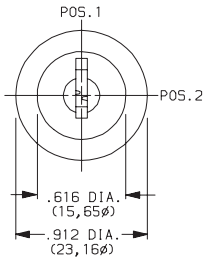


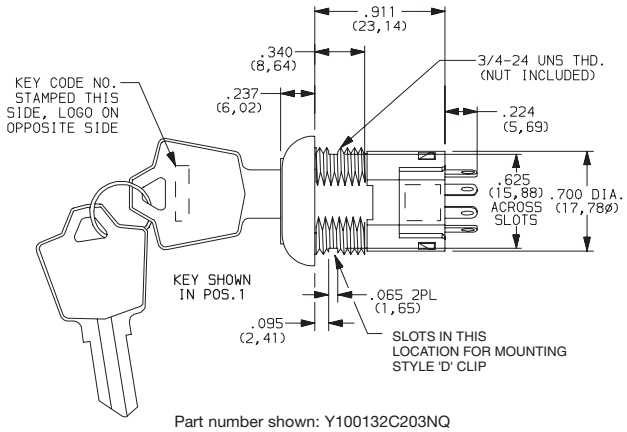
Terminal numbers marked on insulator.

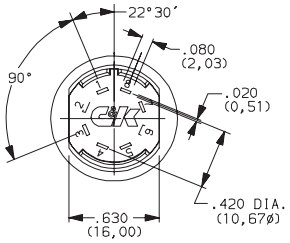
All models cULus with all options when ordered with 'G' or 'Q' contact material.

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

4 & 5 Tumbler

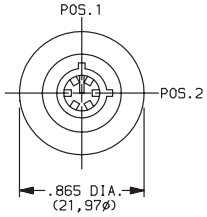


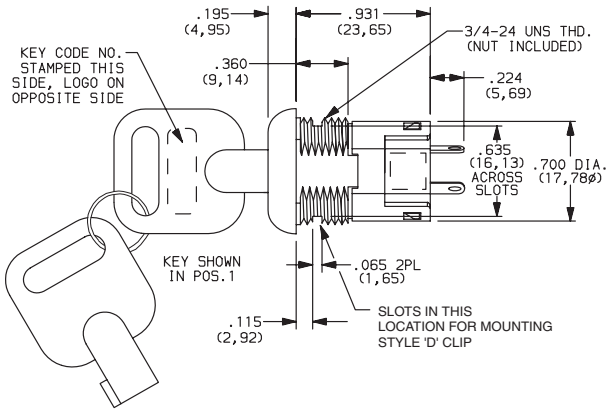


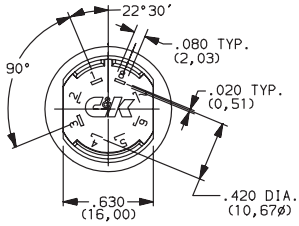


Part number shown: Y100132C203NQ

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

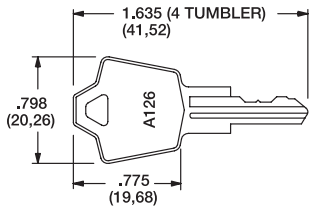
AVAILABLE OPTION COMBINATIONS															
MODELS	LOCK TYPES						TERMINATIONS					MOUNTING/LOCK STYLES			
	A	B	C	R	V	W	01	02	03	07	WC	D	L	N	R
YX0013		●	●		●	●	●	●	●		●	●		●	●
YX001U		●	●	●	●	●	●	●	●		●	●	●	●	●
YX0082		●	●	●			●	●	●		●	●		●	
YX00AX			●	●			●	●	●		●	●		●	●
YX0113		●	●	●	●	●	●	●	●		●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

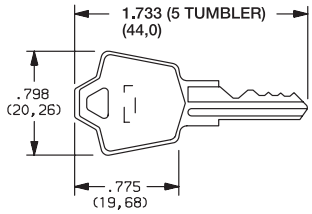
NOTE: All orders keyed alike, standard. For more than one key code, master keying, replacement keys, or other special features, consult Customer Service Center.

NICKEL PLATED BRASS KEY



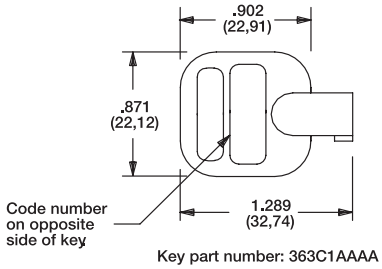
Key part number: 115140126

NICKEL PLATED BRASS KEY



Key part number: 115441001

CHROME PLATED ZINC ALLOY KEY



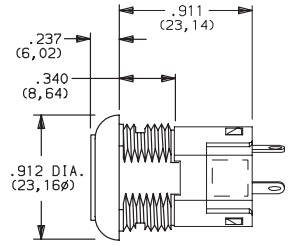
Key part number: 363C1AAAA

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

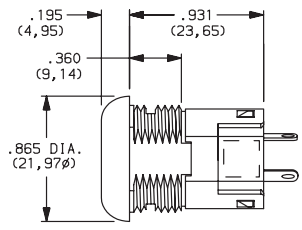
LOCK TYPE

C 4 TUMBLER LOCK WITH DETENT

B 5 TUMBLER LOCK

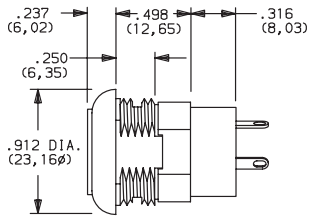


V 6 TUMBLER TUBULAR LOCK



Available with Lock Finish '2' only

A 4 TUMBLER LOCK (MOMENTARY MODELS ONLY)



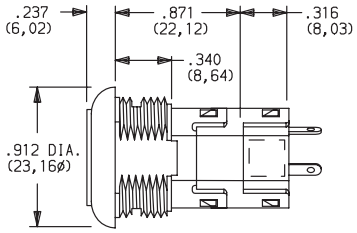
Third Angle Projection

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

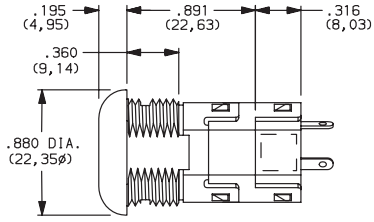
LOCK TYPE

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



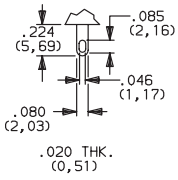
F POLISHED NICKEL



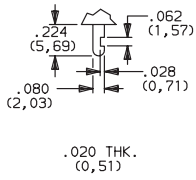
NOTE: For available option combinations, see page L-9.

TERMINATIONS

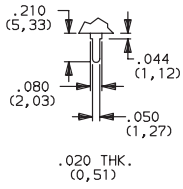
03 SOLDER LUG WITH HOLE



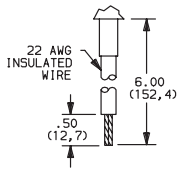
01 SOLDER LUG WITH NOTCH



02 PC THRU-HOLE



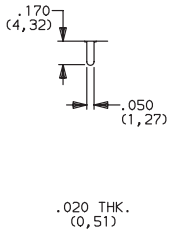
WC WIRE LEAD



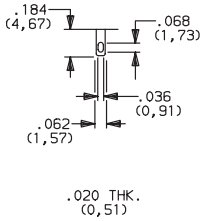
Black wire standard. other colors and lengths available, consult Customer Service Center.
UL style 1015.

All Models Except Y190

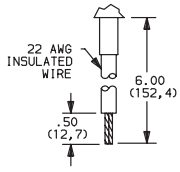
02 PC THRU-HOLE



07 SOLDER LUG WITH HOLE

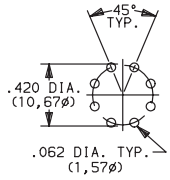


WC WIRE LEAD



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

PC MOUNTING



Y190 Model Only

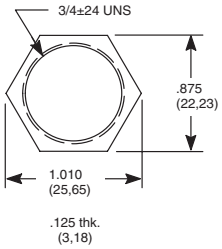
Third Angle Projection

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

Y Series
4, 5 & 6 Tumbler Switchlocks

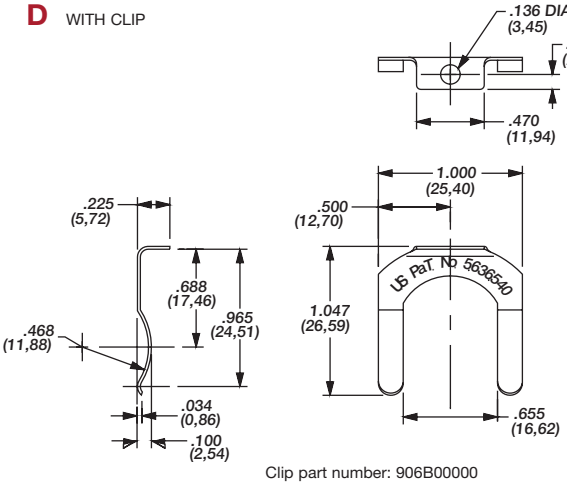
MOUNTING/LOCK STYLE

N WITH NUT



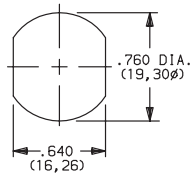
Nut part number: 937C00000

D WITH CLIP



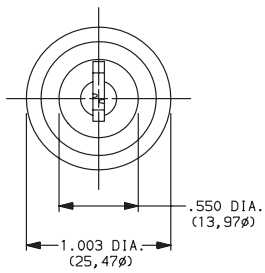
Clip part number: 906B00000

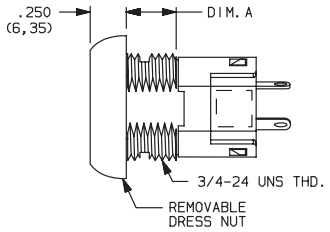
PANEL MOUNTING

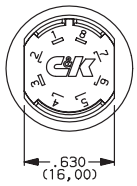


OPTION CODE	MOUNTING STYLE	PANEL THICKNESS
N	WITH NUT	.085-.105 (2,16-2,67)
D	WITH CLIP	.085-.105 (2,16-2,67)

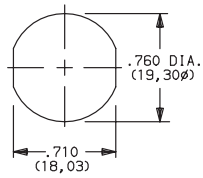
R REMOVABLE DRESS NUT

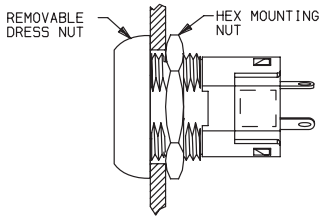






PANEL MOUNTING





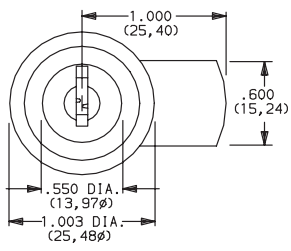
TYPICAL INSTALLATION

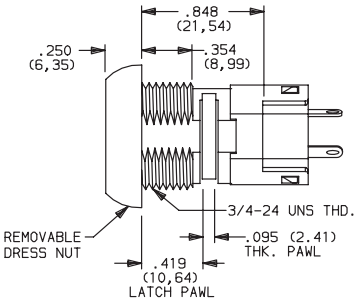
Install hex nut with enough clearance to allow for dress nut and panel. Place switch through cutout in rear of panel. Install and tighten dress nut by hand, then tighten hex nut. Always tighten assembly with back of panel hex nut to avoid damaging front of panel.

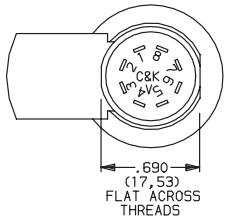
LOCK DIMENSIONS	
LOCK TYPES	'A'
A, N	.270 (6,68)
C, R	.360 (9,14)

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

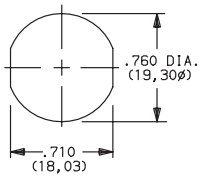
L REMOVABLE DRESS NUT WITH LATCH PAWL







PANEL MOUNTING



Latch pawl shown in pos. 1.

Third Angle Projection

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

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	
Q	YES	YES	SILVER [2]	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 AC V AC (UL/CSA).
B	YES	YES	GOLD [1]	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX
G	YES	YES	GOLD SILVER [3]	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.

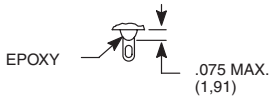
[1] CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.
[2] CONTACTS & TERMINALS: Copper, silver plated (std. with all termination options).
[3] CONTACTS & TERMINALS: Copper, with gold plate over silver plate.

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

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

Third Angle Projection

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