SDC

SECURITY DOOR CONTROLS ■ WWW.SDCSECURITY.COM

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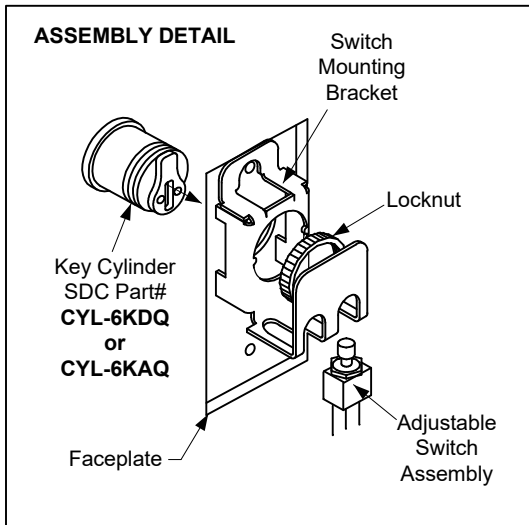
# INSTALLATION INSTRUCTIONS

700 ~ 800 SERIES
KEY SWITCHES

SDC Key Switch Assemblies are compatible with U.S. standard, mortise key cylinders and interchangeable core cylinders (not included). Standard switch assemblies are Single Gang box mounted (2-1/8" depth required). Assemblies equipped with narrow faceplates are mounted directly to the door frame.

ASSEMBLY DETAIL

Switch Mounting Bracket

Locknut

Key Cylinder
SDC Part#
CYL-6KDQ
or
CYL-6KAQ

Adjustable Switch Assembly

Faceplate

KEY SWITCH ASSEMBLY PROCEDURE

1. Insert the key cylinder through the front of the faceplate. Make sure the key cylinder is oriented correctly and the tailpiece is in the upright position.

2. While holding the key cylinder in place, slide the switch mounting bracket onto the back of the cylinder. Align the triangular tabs on the mounting bracket with the corresponding notches on the barrel of the key cylinder.

3. Secure the key cylinder by screwing the supplied Locknut to the back of the cylinder. Tighten firmly. Insert key, adjust the switch position to ensure that the cam makes contact with the center of the switch plunger. The switch height should be adjusted so that the cam does not apply excessive downward pressure to the switch.

4. Once the electrical connections are completed, mount the key switch assembly:
   For the 700/800/800AL Series, attach to a single gang mortise or surface mounted box.
   For the 700T/800T Series, attach to a double gang mortise or surface mounted box.
   For the 700N/800N/800ALN Series, See the frame preparation illustrations on Page 2.

Use tailpiece supplied with SDC Part# CYL-KD, or Ilco 863G-00-10 Standard Cam equivalent.
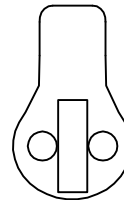
ACTUAL SIZE

UL 294 Performance Rating

Level I : Line Security / Destructive Attack / Standby Power
Level IV : Endurance

Not all models verified by UL. 700 series evaluated by UL, 800 series were not evaluated

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STANDARD FEATURES

- Compatible with 1" to 1-3/8" standard and interchangeable core mortise key cylinders (not included).
- Key cylinder recessed for tamper resistance. (all except 700N Series)
- Tamper resistant spanner screws.
- Anti-tamper plugs (800 Series)
- ***Contact Rating**: 2 amps @ 30VDC (Resistive/Inductive).
- **Wire Leads**: 7", 22 gauge.
- **Large actuator assembly for positive & consistent circuit activation.
  *To be used with a Class 2 power supply or voltage compatible UL 294 or UL 603 listed power supply
  **Compliance with ANSI/NFPA 70 National Electrical Code

OPTIONAL KEY CYLINDER
CYL-KD – 1.25" Mortise Key Cylinder and (2) Keys.
Two different tailpieces included

FACEPLATE DIMENSIONS

700:	4.5"H x 2.875"W x 20 Ga.
700N:	4.5"H x 1.75"W x 20 Ga.
700T:	4.5"H x 4.5"W x 20 Ga.
800/800AL:	5"H x 3.25" W x 0.25"D
800N/800ALN:	5.5"H x 1.75" W x 0.25"D
800T:	5"H x 5" W x 0.25"D

ASSEMBLY TOOLS:
For convenience, a small spanner tool is provided with the assembly for fastening of spanner security screws
SS-632 Standard Spanner Screw Drivers are available

Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdcsecurity.com

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FRAME PREPARATION FOR NARROW KEY SWITCHES

Key switches fit a 1-3/4" frame. For jamb preparation make cut out as shown in Figure A OR Figure B. Using the faceplate as a template, drill and then tap for #6-32 screws. NOTE: FIGURES NOT TO SCALE
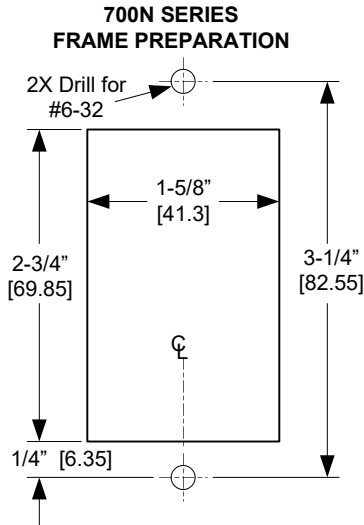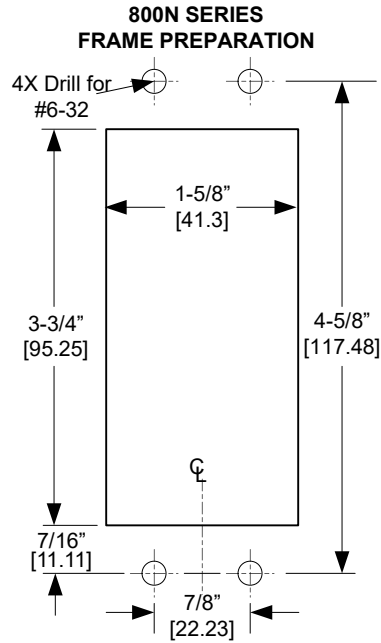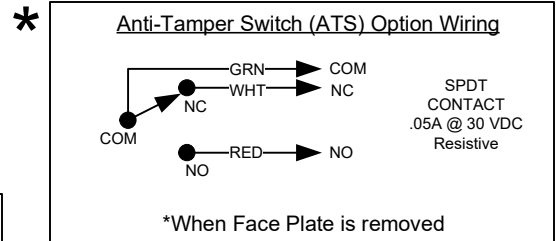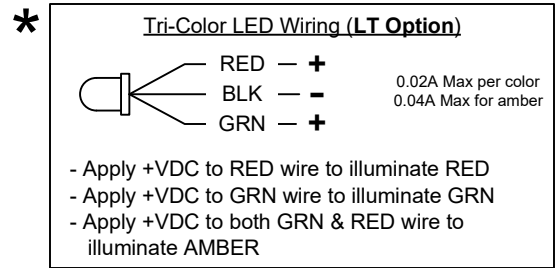
700N SERIES FRAME PREPARATION

2X Drill for #6-32

1-5/8" [41.3]

2-3/4" [69.85]

3-1/4" [82.55]

1/4" [6.35]

FIGURE A

800N SERIES FRAME PREPARATION

4X Drill for #6-32

1-5/8" [41.3]

3-3/4" [95.25]

4-5/8" [117.48]

7/16" [11.11]

7/8" [22.23]

FIGURE B

KEYSWITCH WIRING INSTRUCTIONS

FOR 700/700N/700T/800/800N/800T/800AL SERIES & OPTIONS:

SINGLE SPDT SWITCH WIRING

ORG — NC
WHT — COM
YEL — NO

DUAL SPDT SWITCH WIRING

ORG — NC
WHT — COM
YEL — NO

ORG — NC
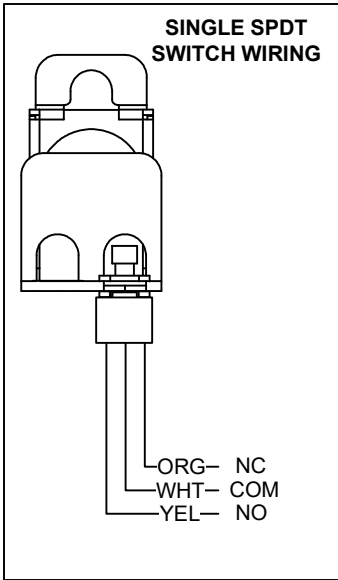WHT — COM
YEL — NO

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* Single Color LED Wiring (**L1G, L1R, or L2 Option**)

WHT — **+** 24VDC
BLK — **−** .02A max

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* Tri-Color LED Wiring (**LT Option**)

RED — **+**
BLK — **−**
GRN — **+**

0.02A Max per color
0.04A Max for amber

- Apply +VDC to RED wire to illuminate RED
- Apply +VDC to GRN wire to illuminate GRN
- Apply +VDC to both GRN & RED wire to illuminate AMBER

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* Anti-Tamper Switch (ATS) Option Wiring

GRN → COM
WHT → NC
RED → NO
COM
NC
NO

SPDT CONTACT
.05A @ 30 VDC
Resistive

*When Face Plate is removed

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* *FOR TIMED MODELS x04 & x10 ONLY*, CONNECT THE MOMENTARY CONTACT TO THE 10TD MINI TIMER AS SHOWN:

WHT — BLK
YEL — BLU

10TD*

Key Switch - Momentary Contact
COM
NO

*Refer to 10TD Instructions for timer specifications & wiring details.

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* Buzzer (RMB) Option Wiring (12/24VDC)
RED Wire: (+) VDC, BLK Wire: (-) VDC

24mA @ 24 VDC

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* Siren (SN) Option Wiring (4 to 28VDC)

⊕ Terminal: (+) VDC

⊖ Terminal: (-) VDC

15mA @ 24 VDC

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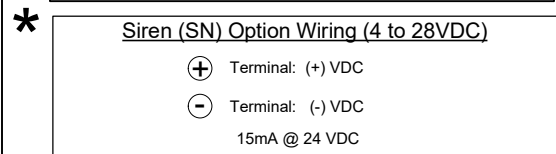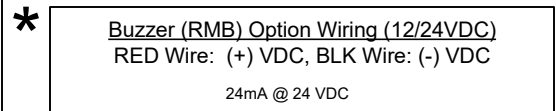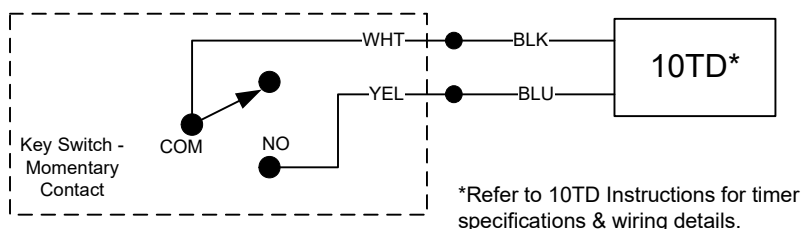
*Options were not evaluated under UL 294 standards