



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). Narrow faceplates are mounted directly to the door frame.

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 Only)
- ***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

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

KEY SWITCH ASSEMBLY PROCEDURE

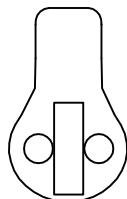
1. Insert the key cylinder through the front of the faceplate. Make sure the key cylinder is oriented correctly and the tailpiece is in the upright position.
2. While holding the key cylinder in place, slide the switch mounting bracket onto the back of the cylinder. Align the tabs from the mounting bracket 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 refer to Figure A. 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. Refer to Figure B.
4. Once the assembly is completed, wire accordingly per pg. 2 and secure the key switch assembly:
 - * 700 / 800AL Series, mounts to a standard single gang mortise or surface mounted box.
 - * 700T Series, mounts to a double gang mortise or surface mounted box.
 - * 700N Series, Refer to Figure C illustration on Page 2.
 - * 800ALN Series, Refer Figure D illustration on Page 2.

OPTIONAL SDC KEY CYLINDER

CYL-KDQ - 1-1/8" Mortise Key Cylinder Keyed Different

CYL-KAQ - 1-1/8" Mortise Key Cylinder Keyed Alike

Use tailpiece supplied with optional SDC Mortise key cylinder, or Ilco 863G Standard Straight Cam and or equivalent. See image below.



ACTUAL SIZE
(863G)

FACEPLATE DIMENSIONS

700: 4-1/2" H x 2-7/8" W x 20 Ga.

700N: 4-1/2" H x 1-3/4" W x 20 Ga.

700T: 4-1/2" H x 4-1/2" W x 20 Ga.

800AL: 5" H x 3-1/4" W x 1/4" Thk

800ALN: 5-1/2" H x 1-3/4" W x 1/4" Thk

ASSEMBLY TOOLS:

For convenience, a small spanner tool is provided with the assembly for fastening of spanner security screws.

ASSEMBLY DETAIL

FIGURE A

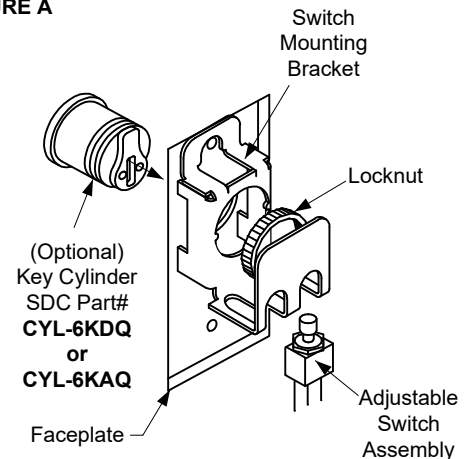
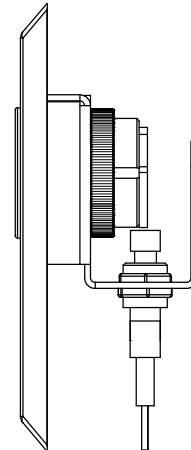


FIGURE B

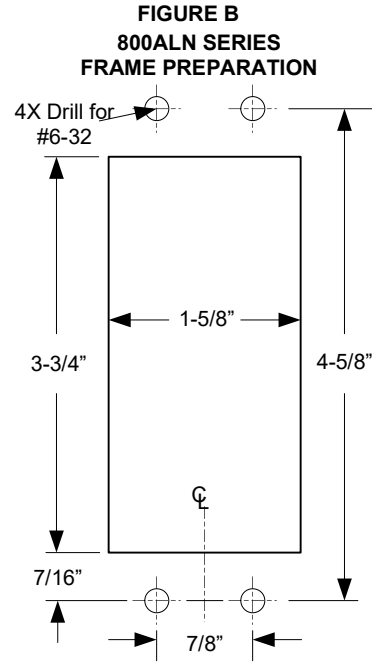
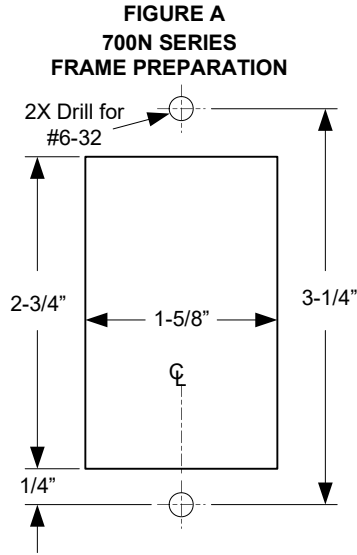


Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdsecurity.com



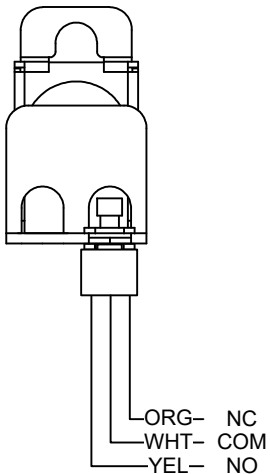
FRAME PREPARATION FOR 700N & 800ALN MODELS

The narrow key switches fit onto a 1-3/4" frame. For jamb preparation make cut out as shown in Figure A OR Figure B depending on narrow model. Using the dimensions shown below, drill and then tap for #6-32 screws as noted. **FIGURES SHOWN BELOW ARE NOT TO SCALE**

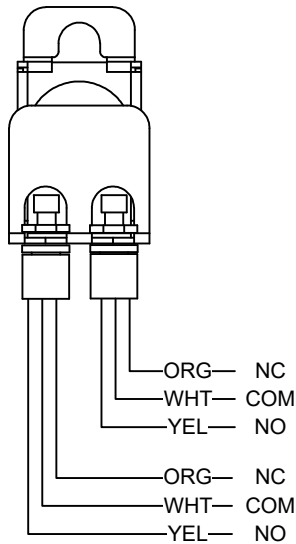


KEYSWITCH WIRING INSTRUCTIONS 700 & 800AL KEY SWITCH & OPTIONS WIRING

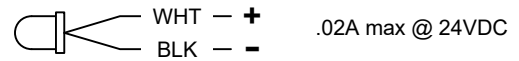
SINGLE SPDT SWITCH WIRING



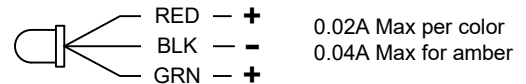
DUAL SPDT SWITCH WIRING



* L1G, L1R, or L2 Option – Single Color LED

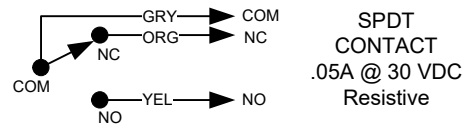


* LT Option – Tri-Color LED Wiring



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

* ATS Option – Anti-Tamper Switch Wiring



*When Face Plate is removed

* RMB Option – Buzzer Wiring (12/24VDC)

RED Wire: (+) VDC, BLK Wire: (-) VDC 24mA @ 24 VDC

*Options were not evaluated under UL 294 standards

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

- ⊕ Terminal: (+) VDC 15mA @ 24 VDC
- ⊖ Terminal: (-) VDC