

# SECO-LARM

## SD-996C-NUQ

### Universal Door Strike

#### Manual



- UL Listed.
- Field selectable for fail-safe or fail-secure
- Includes 3 faceplates for nearly any type of door:
  - ✓ Aluminum frames
  - ✓ Hollow metal door frames
  - ✓ Wood door frames
- Dual-voltage 12/24 VDC.
- Mounting tabs included for mounting to hollow aluminum doors.
- Reversible non-handed design fits either right-hand or left-hand doors.
- Low profile: Strike is only 1<sup>1</sup>/<sub>4</sub>" deep for use with aluminum frames.



NOTE: Products with a model number that ends with "Q" or have a round green "Q" sticker represent RoHS compliant products.

**Table of Contents:**

Introduction.....	2	Using Mounting Tabs.....	4
Specifications .....	2	Selecting Fail-Secure or Fail-Safe.....	4
What's Included.....	2	Aluminum Door Frame Installation.....	5
Installation .....	2	Metal Door Frame Installation.....	6
Measuring the Latch & Center Lines...	3	Wood Door Frame Installation.....	7
Mounting the Template.....	3	Wiring Diagram.....	8
Preparing the Door Frame.....	4	Troubleshooting.....	8

**Introduction:**

The SECO-LARM SD-996C-NUQ Universal Door Strike can be used with virtually any cylindrical-locking system and can be configured for use in wood, aluminum, or metal doors. Included are three different ANSI-sized faceplates that can be easily installed on the strike to match the specific type of door frame. The strike can be quickly and easily configured in the field for fail-safe or fail-secure applications.

**Specifications:**

Operating voltage		12 or 24 VDC $\pm$ 15%
Current draw	12VDC	280mA
	24VDC	140mA
Operating temp		14°~113° F (-10°~45° C)
Operating humidity		85% $\pm$ 15%

**What's Included:**

Door Strike .....	x 1	Mounting tabs.....	x 2
Mounting Plates.....	x 3	Wood screws.....	x 2
<b>SD-996SS-11Q</b> - For metal door frames		Machine screws.....	x 4
<b>SD-996RA-11Q</b> - For hollow aluminum door frames		Machine screws (narrow).....	x 2
<b>SD-996RA-31Q</b> - For wood door frames		Security screws.....	x 2
Mounting template.....	x 1	Black anchor nuts.....	x 2
Electrical connectors.....	x 2	Security Allen wrench.....	x 1

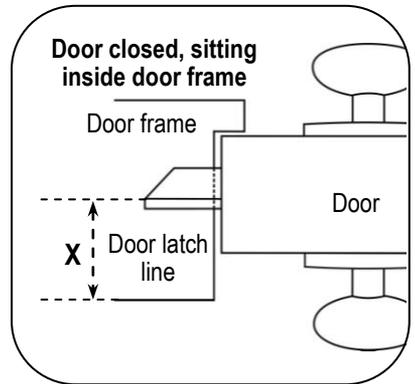
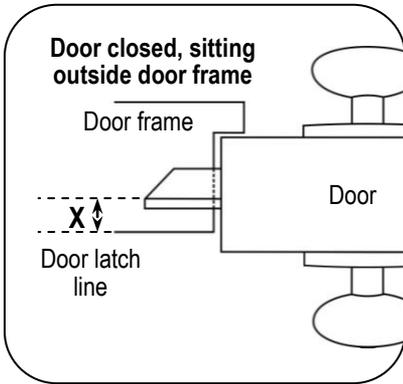
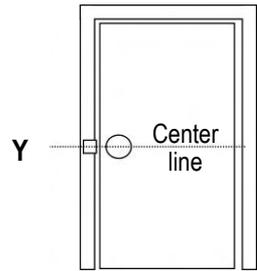
**Note: Not all parts will be used in every installation.**

**Installation:**

1. Select the type of faceplate that will be used. See the Sample Applications on pages 5-7. If the door is pre-cut for a strike, skip to step 6.
2. Measure and mark the door latch line and the center line of the door. See Figure 1, page 3.
3. Apply the included stick-on template to the door frame. See Figure 2, page 3.
4. Prepare the door frame for installation. See Figure 3, page 4.
5. If the door frame material is unsuitable for mounting the strike directly, use the included mounting tabs and small black anchor nuts for installation. This is recommended for aluminum door frames. See Figure 4, page 4.
6. Program for either fail-safe or fail-secure operation. See Figure 5, page 4.
7. Connect to a keypad or exit device. See Figure 6, page 8.

### Figure 1: Measuring the Latch Line and Center Line

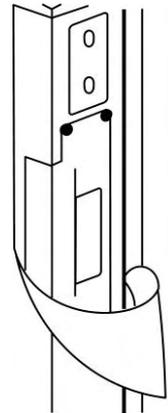
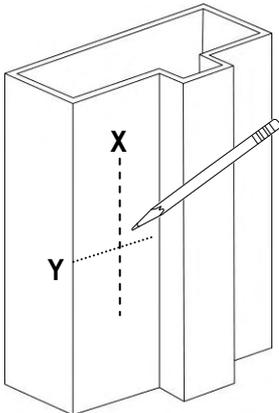
1. Measure the center line of the door. This is shown as "Y" on the diagram to the left.
2. Measure the distance from the door latch to the edge of the door frame. This is the door latch line. This is shown as "X" on the diagrams below.



### Figure 2: Mounting the Template

**Note:** The electric strike must be installed in such a way and in such a location as not to impair the operation of any emergency exit and panic-mounted hardware on the door.

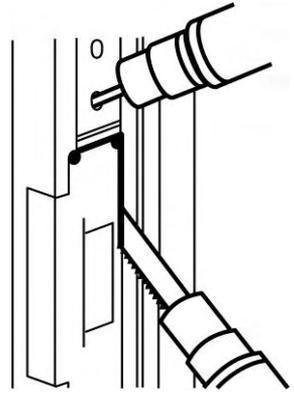
1. Measure distance "X" from the side of the door frame, and distance "Y" from the top of the door frame. Use a pencil to mark the exact spot where the two lines intersect.
2. Carefully peel off the short, thin tab in the center of the stick-on template. When placed against the frame, this opening in the template will easily line up with the X-Y mark.
3. Peel the template from the backing, and carefully apply it to the door frame.



### Figure 3: Preparing the Door Frame

Using the stick-on template as a guide:

1. Drill holes for mounting the strike, and cut a hole for the face-plate size being used. It is recommended to cut the hole slightly smaller than necessary.
2. Use a file to finish the shaping of the frame. This will improve the fit and finish of the installation.

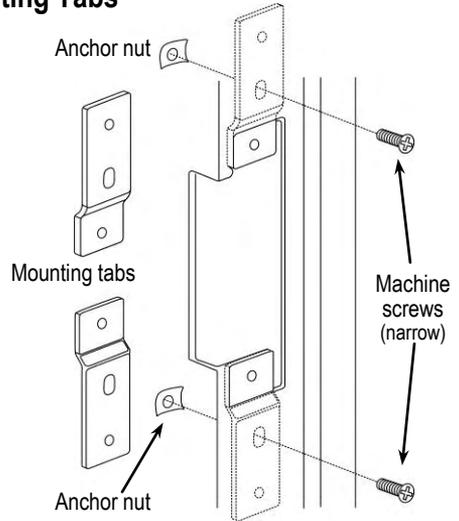


### Figure 4: Mounting the Strike Using Mounting Tabs

To mount the strike where the hollow door frame material is unsuitable for mounting, do the following:

1. Punch or drill holes according to the template for installation of the mounting tabs, and the anchor nuts that reinforce them.
2. When installing, do not over-tighten the screws as small adjustments may be required to secure a snug fit for the door strike.

**Note:** This is commonly done when retrofitting door frames.

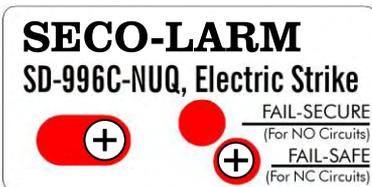


### Figure 5: Selecting fail-secure or fail-safe operation

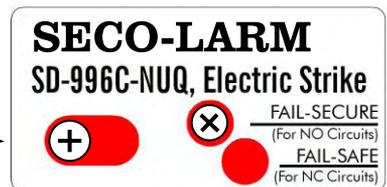
1. Loosen and move the sliding screw to the correct position.
2. Loosen and remove the locking screw. Put it in the desired setting and retighten both screws.

**Factory default: Fail-safe**

**Fail Safe:**



**Fail Secure:**



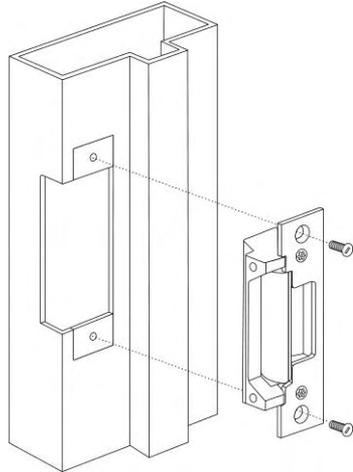
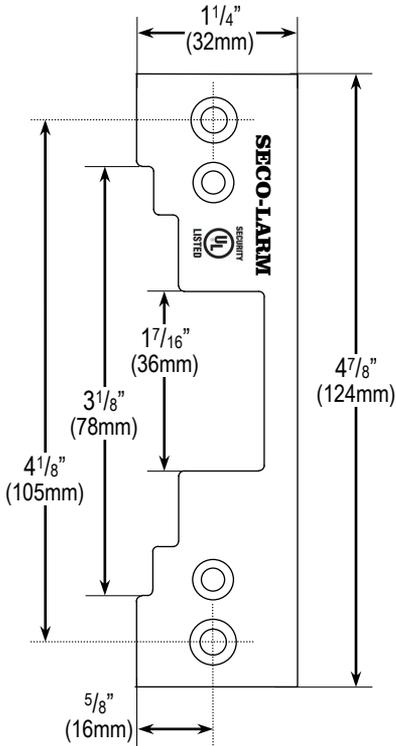
Locking screw  
Sliding screw



## Metal Door Frame Installation

For installation on a hollow metal door frame, it is recommended to use the short steel SD-996SS-11Q faceplate:

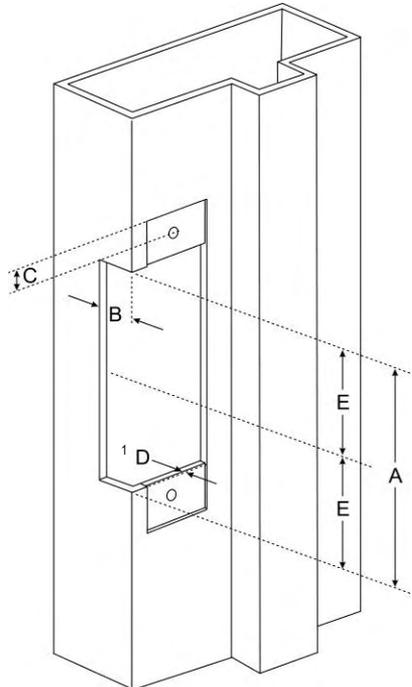
### SD-996SS-11Q



**Note:** If it is necessary to cut a hole in the frame, mounting tabs may be required to strengthen the installation. See page 4 for more information.

### Measurement Key:

<b>A</b>	3 1/8"	78mm
<b>B</b>	5/8"	17mm
<b>C</b>	3/8"	9mm
<b>D<sup>1</sup></b>	1/8"	3mm
<b>E</b>	1 17/32"	39mm

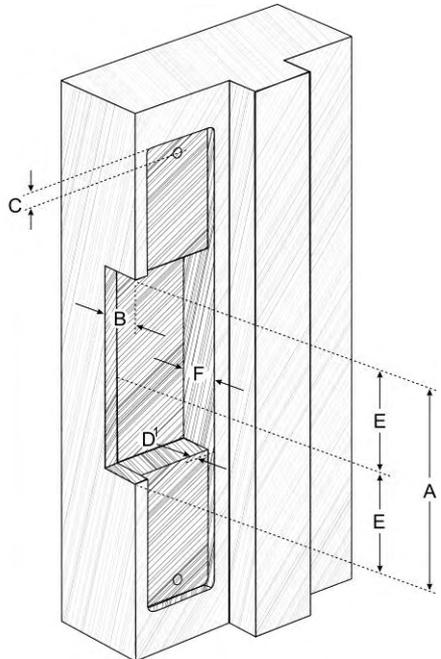
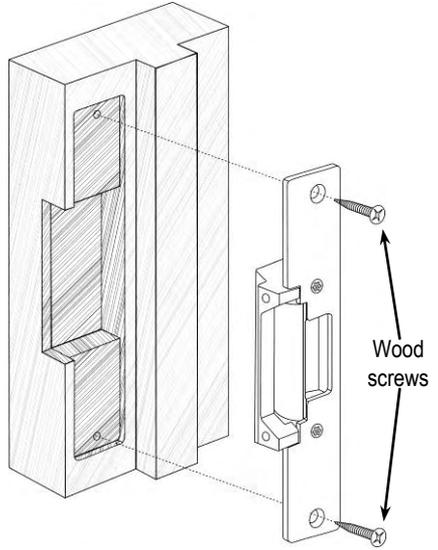
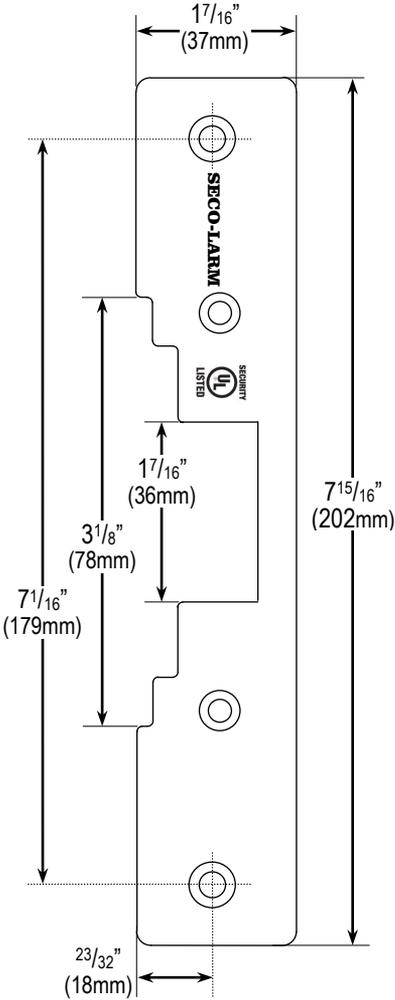


<sup>1</sup> Refers to the thickness of the faceplate.

### Wood Door Frame Installation

For installation on a wooden door frame, it is recommended to use the long brushed aluminum SD-996RA-31Q faceplate:

### SD-996RA-31Q



#### Measurement Key:

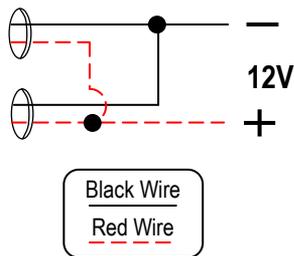
A	3 1/8"	78mm
B	5/8"	17mm
C	7/16"	11mm
D <sup>1</sup>	1/8"	3mm
E	1 17/32"	39mm
F	1 5/16"	33mm

<sup>1</sup> Refers to the thickness of the faceplate.

### Figure 6: Wiring diagram

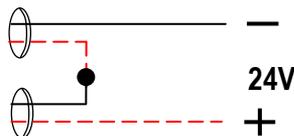
#### For 12VDC operation:

1. Connect both red wires together, and connect both black wires together in **parallel**.
2. Connect the black wires to — and the red wires to + .



#### For 24VDC operation:

1. Connect one red wire together with one black wire in **series**.
2. Connect the remaining black wire to — and the remaining red wire to + .



### Troubleshooting:

Electric strike does not activate

- Dismount the strike and check that the four wires are connected properly.
- Ensure the wires are connected to a 12 or 24VDC source.
- Use a multimeter to test that the strike is receiving the proper voltage and amperage. If it is not, it may be necessary to use heavier gauge wires, or increase the output of the power supply.
- Make sure the activation device (keypad or push-button switch) is working properly.

Door does not open when the electric strike is activated

- Check that the door latch is operating properly, and replace if necessary.
- The position of the electric strike may need to be adjusted by moving it or adding washers or shims.

Strike makes a buzzing sound

- Use DC power supply instead of AC power.

**WARRANTY** This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for a period of three (3) years from the date of sale to the original consumer customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair, or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM, and the purchaser's exclusive remedy, shall be limited to replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damages of any kind to the purchaser or anyone else.

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