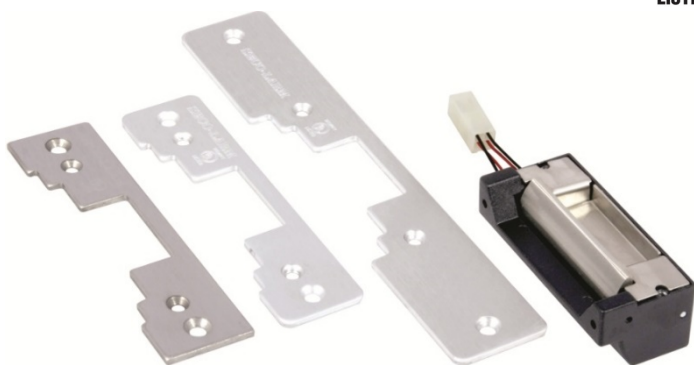# SECO-LARM®

SD-996C-NUQ
Universal Door Strike

Manual

Features:

- Field selectable for fail-safe or fail-secure
- 12/24 VDC Operating voltage
- Static strength – 1,000-lb (4,448N)
- Dynamic strength – 50ft-lb (68J)
- Includes wiring harness and connectors for either 12VDC or 24VDC
- Trim plate included
- Mounting tabs included for mounting to hollow aluminum door
- For Indoor Use Only
- Includes 3 faceplates for nearly any type of door:
    - ✓ Aluminum door frames
    - ✓ Hollow metal door frames
    - ✓ Wood door frames

- Reversible non-handed design fits either right-hand or left-hand doors
- Low profile: Strike is only $1^1/_4$" deep for use with aluminum frames
- The SD-996C-NUQ is intended to be used with UL Listed Exit Hardware
- The SD-996C-NUQ shall not impair the intended operation of an emergency unit
- The SD-996C-NUQ shall not impair the operation of panic hardware mounted on the door
- Wiring methods shall be in accordance with NFPA70
- Optional lip-extension brackets available:
    - SD-995C-LE25 1" Lip Extension
    - SD-995C-LE50 2" Lip Extension

SLI

CE RoHS

SECO-LARM Universal Door Strike

Table of Contents:

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 door frame type. The strike is easily field-configurable for fail-safe or fail-secure applications.

Specifications:

Operating voltage		12/24 VDC ±15%
Current draw	12VDC	300mA
	24VDC	150mA
Operating temperature		32°~120° F (0°~49° C)
Operating humidity		0~85%, non-condensing
Static strength		1,000-lb (4,448N)
Dynamic strength		50ft-lb (68J)
Endurance		250,000 cycles (UL Tested), Level IV
Destructive attack		Level I
Line security		Level I
Standby power		Level I

Parts List:

Door Strike...x 1
Mounting Plates...x 3
   SD-996RA-11Q - *For aluminum door frames*
   SD-996SS-11Q - *For hollow metal door frames*
   SD-996RA-31Q - *For wood door frames*
Mounting template...x 1
Electrical connectors ....x 2
Trim plate...x 1
Trim plate screws ....x 2

Wiring Connectors ....x 2
Mounting tabs..x 2
Wood screws ....x 2
Machine screws...x 4
Machine screws (narrow) ....x 2
Phillips screws ....x 2
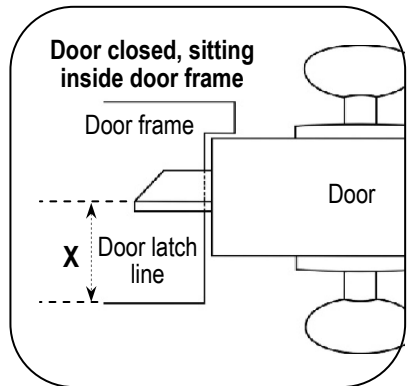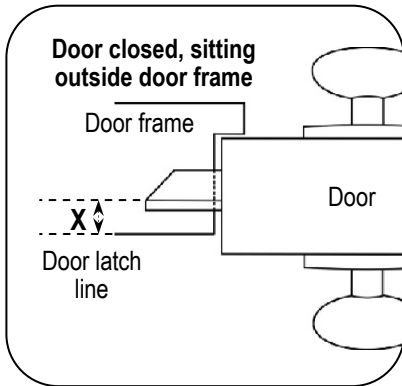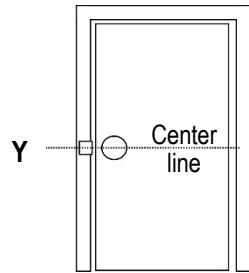Black anchor nuts..x 2

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

Installation:

1. Select the type of faceplate that will be used. See "Sample Installations," pgs. 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 "Measuring the Latch Line & Center Lines," pg. 3.
3. Apply the included stick-on template to the door frame. See "Mounting the Template," pg. 3.
4. Prepare the door frame for installation and mount the trim plate if needed. See "Preparing the Door Frame" and "Mounting the Trim Plate," pg. 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 "Mounting the Strike Using Mounting Tabs," pg. 4.
6. Program for either fail-safe or fail-secure operation. See "Selecting Fail-Secure or Fail-Safe," pg. 4.
7. Connect to power. See "Wiring Diagram," pg. 8.

Measuring the Latch Line & Center Lines:

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.

Y ········ Center line

Door closed, sitting outside door frame

Door frame

Door

X Y

Door latch line

Door closed, sitting inside door frame

Door frame

Door

X Door latch line

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.

X

Y
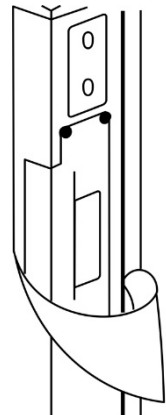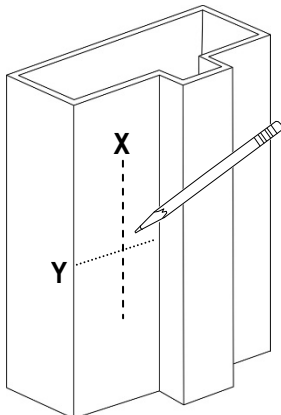
Preparing the Door Frame:

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.
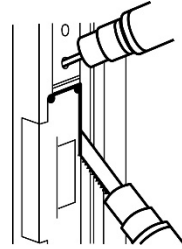
Mounting the Trim Plate:

1. If the hole cut for the faceplate is too large or is jagged, the trim plate can be mounted over the hole to improve the appearance of the installation.
2. Screw the trim plate into the mounting holes at the top and bottom of the door strike using the included trim plate screws.
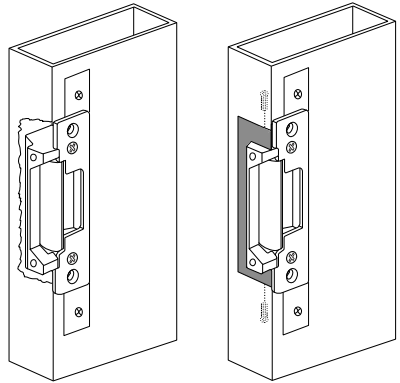
Note: Trim plate is optional and may not be required in all installations. Only use the trim plate to cover any gaps in the door frame.

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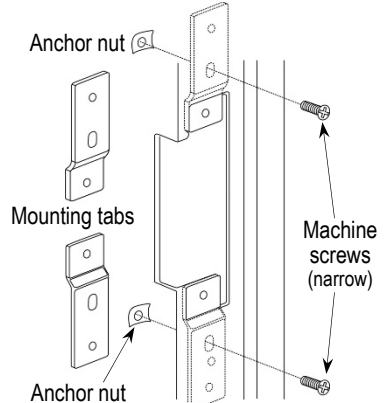
Note: This is commonly done when retrofitting door frames.

Anchor nut

Mounting tabs

Machine screws (narrow)

Anchor nut

Selecting Fail-Secure or Fail-Safe:

1. Loosen and move the locking screw.

Factory default: Fail-safe

2. Loosen the sliding screw. Put it in the desired setting and retighten both screws.

Fail Safe: **Fail Secure:**

SECO-LARM
SD-996C-NUQ, Electric Strike
FAIL-SECURE (For NO Circuits)
FAIL-SAFE (For NC Circuits)

Locking screw

Sliding screw

SECO-LARM
SD-996C-NUQ, Electric Strike
FAIL-SECURE (For NO Circuits)
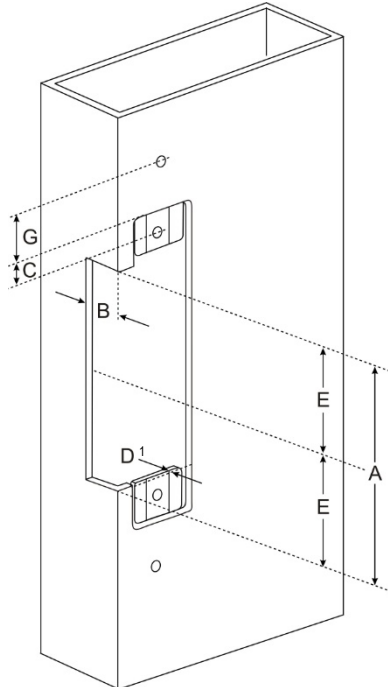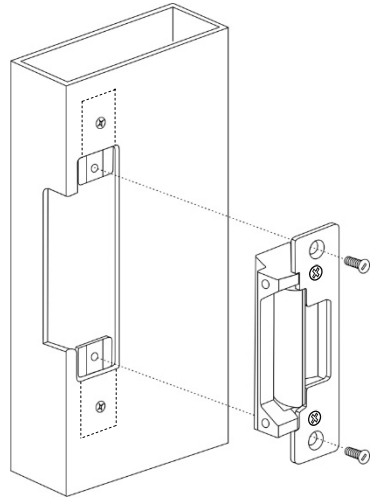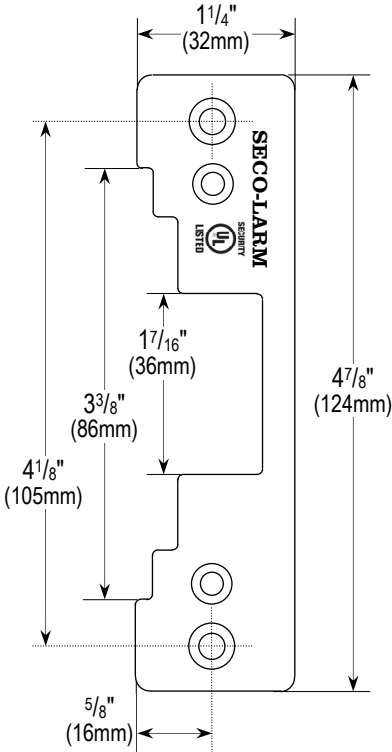FAIL-SAFE (For NC Circuits)

Sample Installations:

Aluminum Door Frame Installation

For installation on an aluminum door frame, it is recommended to use the short brushed aluminum **SD-996RA-11Q** faceplate with the mounting tabs shown in "Mounting the Strike Using Mounting Tabs," pg. 4:

SD-996RA-11Q

Measurement Key:

|		
A	$3^3/_8$"	86mm
B	$5/_8$"	17mm
C	$3/_8$"	9mm
D[1]	$1/_8$"	3mm
E	$1^{17}/_{32}$"	39mm
G	1"	25mm

[1] Refers to the thickness of the faceplate.

Sample Installations (Continued):
Hollow 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
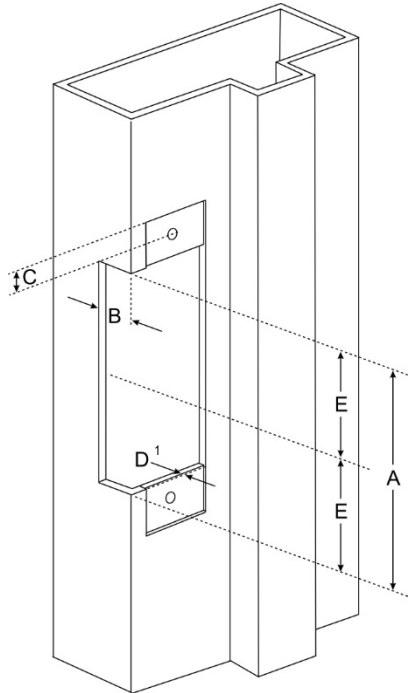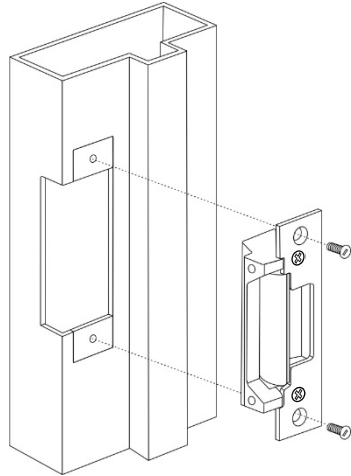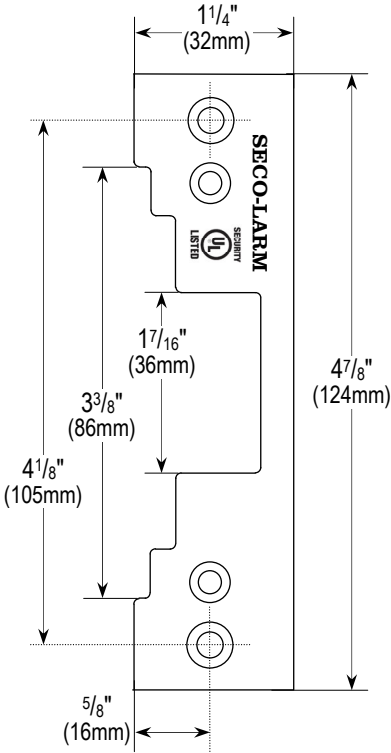
Note: If it is necessary to cut a hole in the frame, mounting tabs may be required to strengthen the installation. See pg. 4 for more information.

Measurement Key:

A	$3^3/_8$"	86mm
B	$^5/_8$"	17mm
C	$^3/_8$"	9mm
D[1]	$^1/_8$"	3mm
E	$1^{17}/_{32}$"	39mm

[1] Refers to the thickness of the faceplate.

Sample Installations (Continued):
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
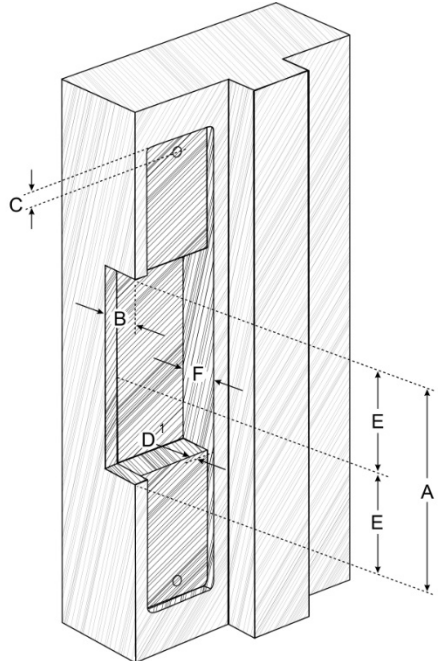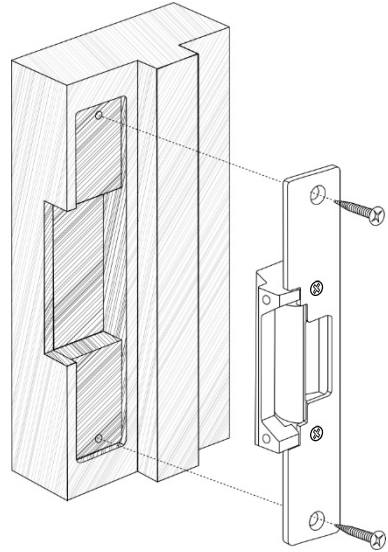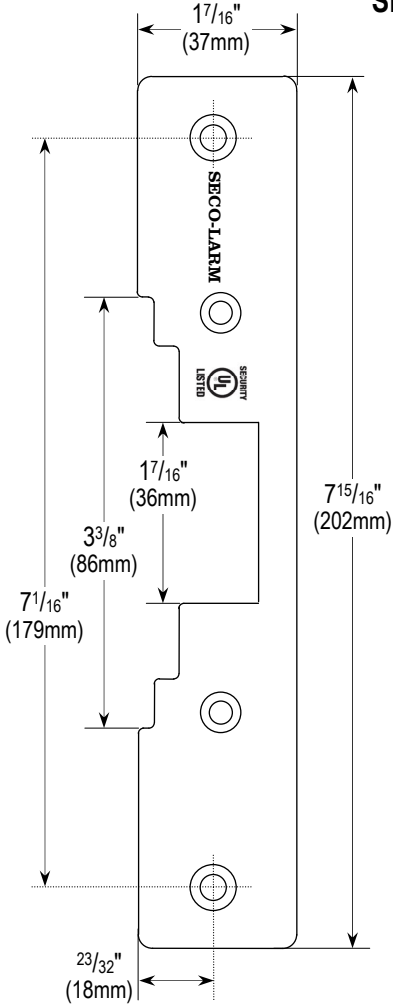
Measurement Key:

A	3³/₈"	86mm
B	⁵/₈"	17mm
C	⁷/₁₆"	11mm
D¹	¹/₈"	3mm
E	1¹⁷/₃₂"	39mm
F	1⁵/₁₆"	33mm

¹ Refers to the thickness of the faceplate.

Wiring Diagram:

For 12VDC operation:

1. Use the included wiring connector marked 12VDC and connect its black wire to (–) and its red wire to (+).
2. Plug the male wiring connector into the female wiring harness connector of the door strike.

12VDC

12V

Black Wire
Red Wire
White Wire
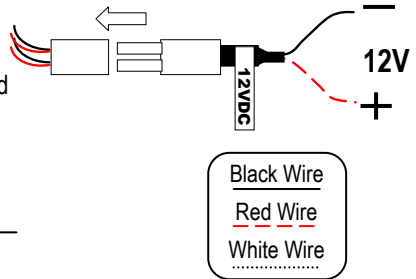
For 24VDC operation:

1. Use the included wiring connector marked 24VDC and connect its black wire to (–) and its white wire to (+).
2. Plug the male wiring connector into the female wiring harness connector of the door strike.

24VDC

24V
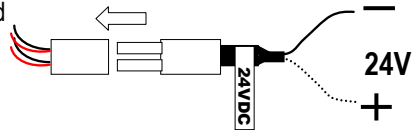
Troubleshooting:

Electric strike does not activate	• Dismount the strike and check that the wiring connector is connected properly. • Ensure the wiring connector is 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.

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