

Electric Deadbolt Installation Manual

Installed by: _____
Date: _____
Tel: _____
Web: _____

Installation notes: _____

Specifications:

	SD-997A	SD-997B
Operation	Fail-Secure	Fail-Safe
Current Draw	Standby: 320mA Activated: 880mA	Standby: 360mA Activated: 900mA
Status Sensor	SPDT, 500mA @ 12VDC (N.O./C./N.C.)	
Operation Voltage	12VDC	
Adjustable Delay Timer	0, 3, 5, 9 secs.	0, 2.5, 5, 9 secs.
Weight (approx.)	2lbs., 5oz. (1 kg.)	1lb., 13oz. (0.82kg.)

Troubleshooting:

Problem:	Possible cause:	Solutions:
Deadbolt does not activate when the door closes.	The sensor in the lock body is too far from the magnet in the strike plate.	• Try adjusting the strike plate, lock body position, or shims.
Deadbolt activates when the door is closed, but does not lock the door.	Deadbolt may not be properly going into the deadbolt hole in the door.	• Make sure the deadbolt is going into the hole and not hitting the strike plate. If not, you must reposition the strike plate. • If the deadbolt is going into the hole, it may be hitting the bottom of the hole (if it is in a wooden door). In this case, drill a deeper hole.
How to reset unit.		• When testing, if necessary, reset the unit by grounding the orange wire momentarily.
For any other problems		• Replace the unit, and test again. A problem unit can also be substituted for a working unit in another door frame to see if it works there.

WARRANTY: ENFORCER Locks are warranted against defects in material and workmanship while used in normal service for a period of one (1) year from the date of sale to the original customer. Our obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation pre-paid, to SECO-LARM.

NOTICE: The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.
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Installation Manual

ENFORCER®
SD-997A - Fail-Secure
SD-997B - Fail-Safe

Electric Deadbolt

The SD-997A/B are designed for hollow metal door frames. They are not recommended for wooden door frames. However, the door can be wood or metal.

Features

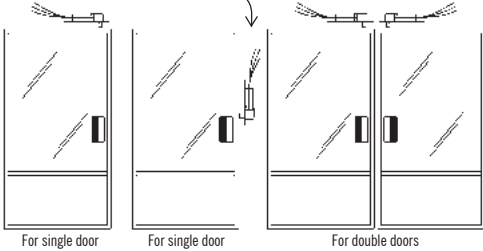
- Adds concealed deadbolt security to most wood or hollow metal doors, with the convenience of electrical operation.
- Stainless steel bolt, 5/8" diameter, 5/8" throw.
- SD-997A – Fail-secure operation (locks if power is lost).
- SD-997B – Fail-safe operation (unlocks if power is lost).
- Door open/close monitor (NO/C/NC).
- Adjustable door lock delay timer – see Specifications.
- Magnetic switch senses door position for positive locking.
- Attempts to lock multiple times if the door is not closed properly, to prevent solenoid from burning out.
- Use with an optional digital keypad for high security without a key.
- Easily connects to SECO-LARM's SK-983A or SK-983A100 Electronic Keypad.
- Suitable for office-type applications.
- Shallow design for use with most metal door jambs.



SD-997B shown

Fig. 1 - Possible Mounting Locations

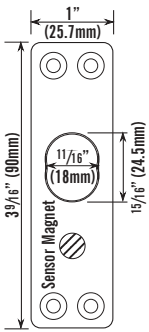
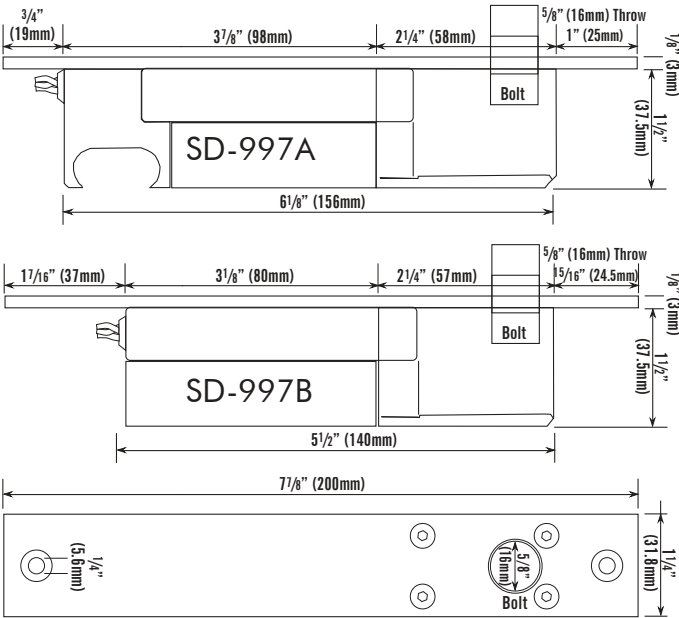
Important - For vertical mounting of SD-997B only, wires must come out the top of the unit.



- Powered by a solenoid.
- Stainless steel for strength and long life.

Mounting Location

Can be mounted opposite the door hinges, or on the header or on top of the door away from the hinges. Mounting on the bottom of the door is not recommended because of the possibility of dirt and dust buildup. (see fig. 1)

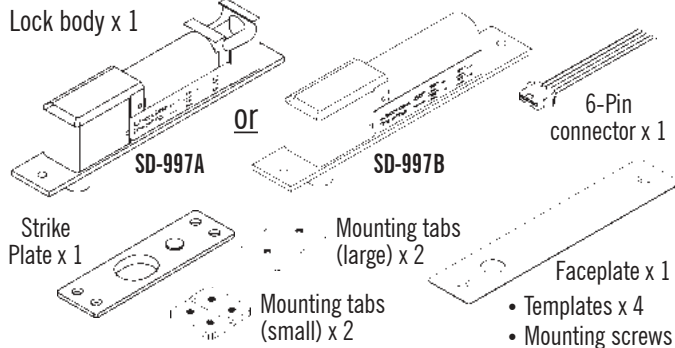


Dimensions:*

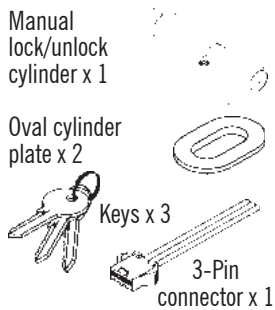
*Note: Original measurements taken in millimeters. Inches are closest 1/16" approximation.

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Fig. 2 - What's Included:



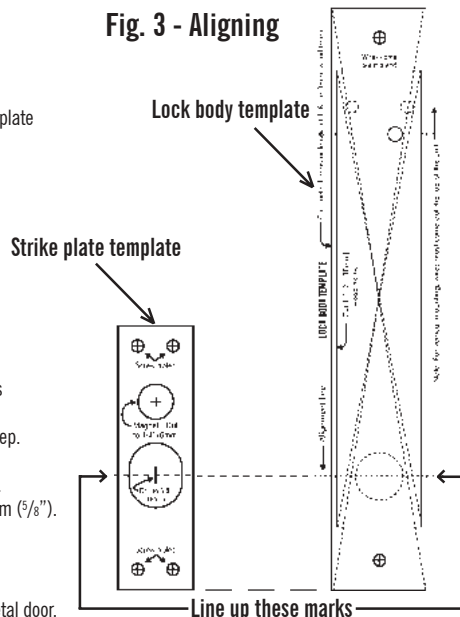
SD-997A Also Includes:



Installation

- Determine where the deadbolt will be mounted (see fig. 1).
- Tape the templates to the door frame and door (see fig. 3).
 - Align the templates so that the deadbolt of the lock body template is centered on the deadbolt hole of the strike plate template.
 - Make sure to leave enough room at the ends of the lock body and strike plate templates for mounting the mounting tabs.
- Door frame cut (see fig. 4).
 - Cut out the space for the lock body.
 - Test the fit. The SD-997A/B lock body should fit snugly inside the space.
 - Drill two 5mm screw holes as shown on the template.
- Door cut and mount. (see fig. 4).
 - For wood doors:
 - Use a chisel to knock out a 3mm (1/8-inch) deep space as shown on the template.
 - Drill the magnet hole, 12mm (1/2") wide by 6mm (1/4") deep.
 - Use four wood screws to mount the strike plate in the chiseled space. The magnet should fit in the magnet hole.
 - Use a drill to drill out the deadbolt hole to a depth of 16mm (5/8").
 - For hollow metal doors:
 - Cut out the space for the strike plate.
 - Drill two screw holes for each of the two mounting tabs.
 - Use screws to fix the mounting tabs inside the hollow metal door.
 - Use screws to fix the strike plate to the mounting tabs.
- Door jamb cut and mount (see fig. 4).
 - Cut out the space for the face of the lock body.
 - Drill one 5mm hole for each of the two mounting tabs.
 - Use screws to fix the mounting tabs inside the door jamb.
 - SD-997A only:** Insert the lock/unlock cylinder (see fig. 5).
 - Connect the wires, and insulate them (see fig. 7):
 - Red – Power input (+)
 - Brown – Power input (-)
 - Orange – Control wire (ground to release bolt)
 - Green – Door monitor, COM
 - Yellow – Door monitor, N.C. (active when door closed)
 - Blue – Door monitor, N.O. (active when door open)

Fig. 3 - Aligning



IMPORTANT – Push all the wires into the door frame. If space is a problem, cut away part of the dust catcher inside the frame, or carefully chip away part of the drywall, being careful not to damage the wall.

- Set the door lock delay timer (see fig. 8). This is the time it takes the deadbolt to automatically lock after the door is closed.

Note: The deadbolt automatically relocks 4 seconds after an optional external push button (egress button) is pressed, if the door was not opened.

* Connect to an alarm control panel or warning device to show if the door is open or closed.

Note: If the strike plate is not aligned properly, the door may be unlocked even if the panel indicates it is closed.

- * {
- Red – Power input (+)
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 - Yellow – Door monitor, N.C. (active when door closed)
 - Blue – Door monitor, N.O. (active when door open)

IMPORTANT – Correct polarity of the red and brown wires is critical. If you reverse polarity, the solenoid will burn out!

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- Pull the vinyl covering off the faceplate, and place the faceplate over the face of the lock body. Use screws to fix the faceplate and lock body to the mounting tabs.
- For SD-997A only (see figs. 5 and 6)

Because the SD-997A offers fail-secure operation, the door locks if power to the unit is cut. For such a situation, a separate manual lock/unlock cylinder is provided for manual operation.

 - Insert the cylinder as shown in Fig. 5, and secure it to the lock body with the provided long screw. Turning the key or the manual knob will unlock the SD-997A manually.

Fig. 4 - Door and Frame Cuts

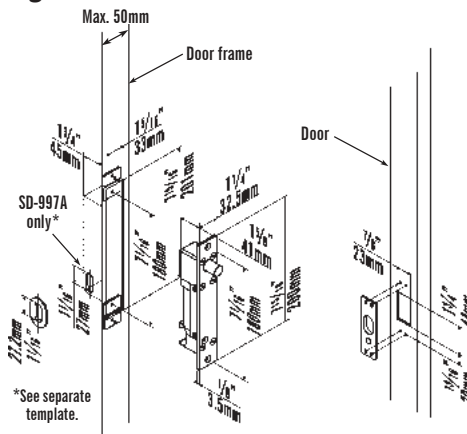


Fig. 5 - Manual Lock/Unlock Cylinder (SD-997A only):

Note: If cylinder is used, max. depth of door frame is 50mm.

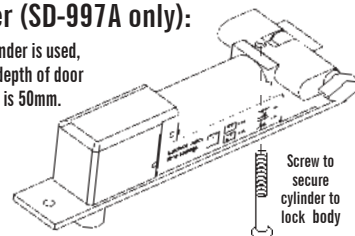
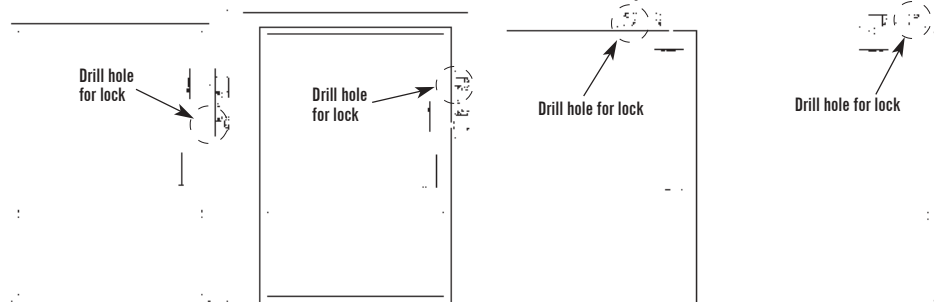


Fig. 6 - Installation of Manual Lock/Unlock Cylinder (SD-997A only):
Installation at side of door Installation at top of door



- Two separate templates are included for drilling holes in the door frame for the key and manual knob.
- A separate 3-pin connector for the SD-997A can be connected to an alarm panel or annunciator to alert when the door is locked or unlocked.

Fig. 7 - Wiring

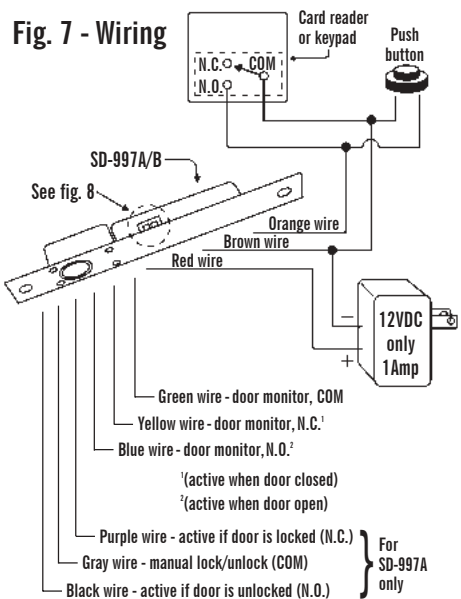


Fig. 8 - Setting Door Lock Delay Timer

SD-997A	0.0 sec.	5.0 sec.
SD-997A	3.0 sec.	9.0 sec.
SD-997B	0.0 sec.	5.0 sec.
SD-997B	2.5 sec.	9.0 sec.