SDC SECURITY DOOR CONTROLS
3580 Willow Lane, Westlake Village, CA 91361-4921 • (805) 494-0622 • Fax: (805) 494-8861
www.sdcsecurity.com • E-mail: service@sdcsecurity.com

INSTALLATION INSTRUCTIONS
FS23M, 1090, 1190 SERIES

OVERHEAD INSTALLATION HORIZONTAL

1. Examine the top rail of the door for the most suitable location for the strike. Mark the door for the end of the strike closet to the lock stile, and make a corresponding mark on the header to line up with the first mark.
2. Locate center line of door thickness on the header and attach adhesive cut out template to header. Lining it up with marks, center punch the tab-mounting screw locations and counter-sink for #10 screw. Saw or rout out the cutout area.

SIDEJAMB INSTALLATION VERTICAL

3. Examine the lock stile jamb for the point nearest the center of the door height, with space available for the lock and strike. Mark the door stile horizontal for the top end of the strike and make a corresponding mark on the jamb.
4. Locate center line of door thickness on the jamb and attach adhesive cutout template to jamb, lining up the the top of the cutout with the horizontal mark on the jamb. Center punch the tab mounting screw locations and counter sink for #10 screw. Saw or rout the cutout 1-½" x 8".
5. Attach the mounting tabs inside.
6. (FS23M only) bore $^{5}/_{16}$" hole for pilot lamp on inside face of frame as shown.
7. Attach power supply leads to lock leads as shown. Handle the lock carefully; do not hang it by the wire leads. Insert wires into the header cavity carefully so they do not interfere with proper locating of the lock in the cutout.
8. Insert lock. Horizontally, the bolt end is nearest the lock stile. Vertically, the bolt must be at the top end of the cutout. Secure with 10/32 machine screw.
9. Using strike for a template, mark screw hole location and drill holes for screws supplied. Mortise as required. Attach strike.
10. The automatic relock switch is set for ⅛" clearance between the top of the door and transom bar or head jamb. Any additional gap may be compensated for by loosening the lock nut and turning the switch assembly clockwise until proper adjustment is reached. Be sure to tighten lock nut when adjustment is satisfactory.

Auto Relock Switch
Adjustable for Wide Door Gap

Loosen nut.
Turn assembly clockwise for wide door gap.
Tighten nut.

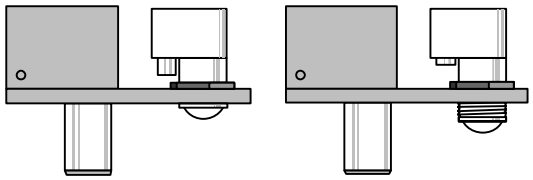
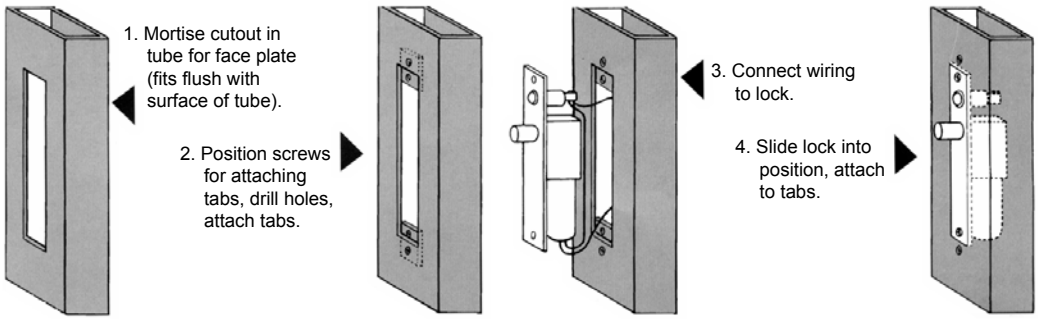


Fig. 1 **Fig. 2**

Easy Installation or Servicing

All Space Saver locks are easily installed in any existing entrance merely by mortising out a cutout, attaching the wiring, inserting the lock, and bolting it into position with two attaching tabs. Cutting studs is no longer a problem or expense.



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

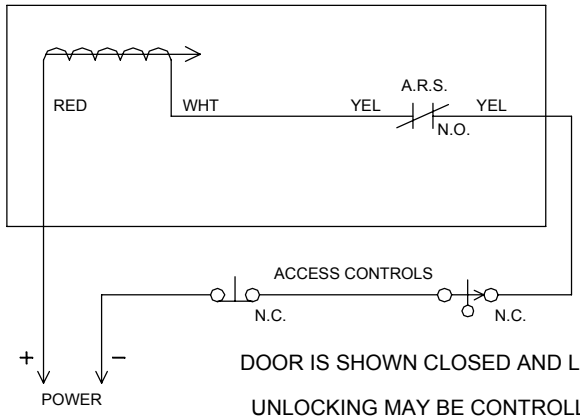
1190A

Face plate: 8" x 1-½" x 0.125"
(203.2mm x 38.1mm x 3.175mm)
I.D. Requirements: 8" x 1-½" x 1-½"
(203.2mm x 38.1mm x 38.1mm)

Solenoid: Continuous duty
Standard voltage: 24VDC @ .7 Amp

Strike: M-Mortise 4" x 1-½" x 0.125" (101.6mm x 38.1mm x 3.175mm)
Bolt: ¾" (6.35mm) dia. S.S., ¾" (6.35mm) throw

FOR 1190A ONLY:



DOOR IS SHOWN CLOSED AND LOCKED.

UNLOCKING MAY BE CONTROLLED BY MULTIPLE SWITCH LOCATIONS.

FS23M

Face plate: 8" x 1-½" x ⅛"
(203.2mm x 38.1mm x 3.175mm)
I.D. Requirements: 8" x 1-½" x 1-½"
(203.2mm x 38.1mm x 38.1mm)

Solenoid: Continuous duty
Dual Voltage:
12VDC@ .9 Amp
24VDC@ .45 Amp

Strike: M-Mortise 4" x 1-½" x 0.125" (101.6mm x 38.1mm x 3.175mm)
For wood 1-¾" deep (44.45mm)
Bolt: ⅝" (15.88mm) dia. nylon with magnet insert, ⅝" (15.88mm) throw.
Red pilot lamp standard to indicate door locked.

1091A/1091ADL (DEADLOCKING)

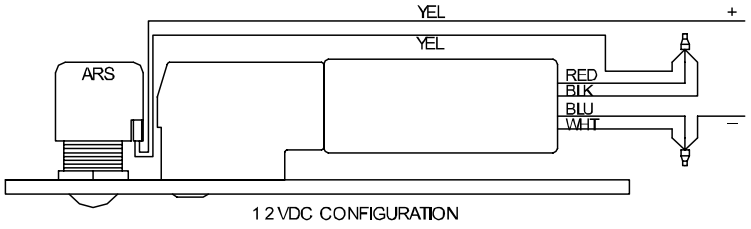
Face plate: 8" x 1-½" 0.125" (35.1mm x 35.1mm x 3.175mm)
1091STA: 4-⅞" x 1-¼" x 0.0937" ANSI
(123.53mm x 31.75mm x 2.28mm)

I.D. Req. 8" x 1-½" x 1-½"
(203.2mm x 38.1mm x 38.1mm)

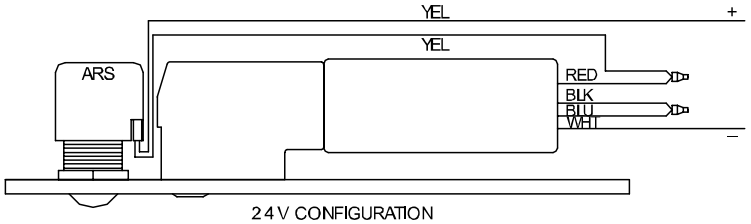
Solenoid: Continuous duty
Dual Voltage:
12VDC @ .9 AMP
24VDC @ .45 AMP

Strike: M-Mortise 4" x 1-½" x 0.125" (101.6mm x 38.1mm x 44.45mm)
Bolt: ⅝" (15.88mm) dia. S.S., ¾" (6.35mm) throw

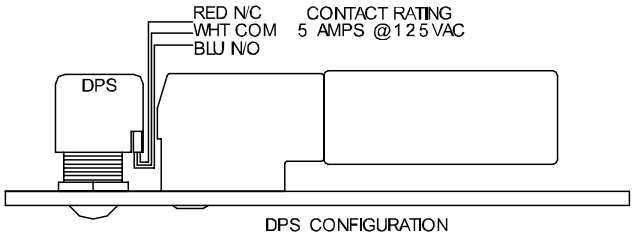
FOR FS23M AND 1091A/1091ADC:



12VDC CONFIGURATION



24V CONFIGURATION



DPS CONFIGURATION

BOLT POSITION SENSOR (MAGNETIC)		
No. 6 SPDT	Indicates bolt locked or unlocked	.25 Amp
DOOR POSITION SENSOR (MAGNETIC)		
No.9 SPDT	Indicates door opened or closed	.25 Amp
DOOR POSITION SWITCH (MECHANICAL)		
DPS SPDT	Indicates door opened or closed	5 Amp

TROUBLE SHOOTING

Problem	Solution
Bolt does not project	Check voltage and alignment of strike.
Bolt projects but chatters	Voltage too low.
Bolt will not retract	Strike misaligned

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1200 SERIES
INSTALLATION INSTRUCTIONS

1. OVERHEAD INSTALLATION HORIZONTAL

Examine the top rail of the door for the most suitable location for the strike. Mark the door for the end of the strike closest to the lock stile, and make a corresponding mark on the header to line up with the first mark.

2. Locate centerline of door thickness on the header and attach adhesive cut-out template to header. Lining it up with marks, center punch the tab-mounting screw locations and counter-sink for #10 screw. Saw or rout out the cut-out area.

3. SIDE JAMB INSTALLATION VERTICAL

Examine the lock stile jamb for the point nearest the center of the door height, with space available for the lock and strike. Mark the door stile horizontal for the top end of the strike and make a corresponding mark on the jamb.

4. Locate center line of door thickness on the jamb and attach cut-out template to jamb, lining up the top of the cut-out with the horizontal mark on the jamb. Center punch the tab mounting screw locations and counter-sink for #10 screw. Saw or rout out the cut-out 1-1/2" X 8".

5. Attach the mounting tabs inside frame.

6. Attach power supply leads to lock leads as shown. Handle the lock carefully; do not hang it by the wire leads. Insert wires into the header cavity carefully so they do not interfere with proper locating of the lock in the cut-out.

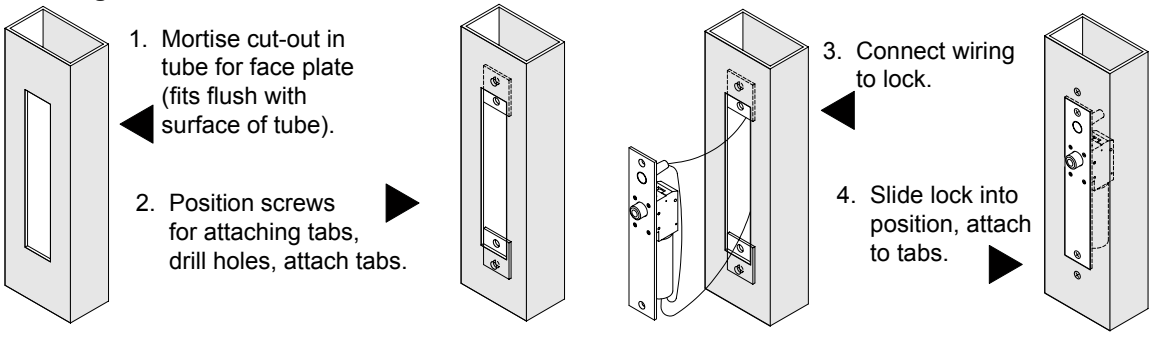
7. Insert lock. Horizontally, the bolt end is nearest the lock stile. Vertically, the bolt must be at the *top end* of the cut-out. Secure with #10-32 machine screw.

8. Using strike for a template, mark screw hole location and drill holes for screws supplied. Mortise as required. Attach strike.

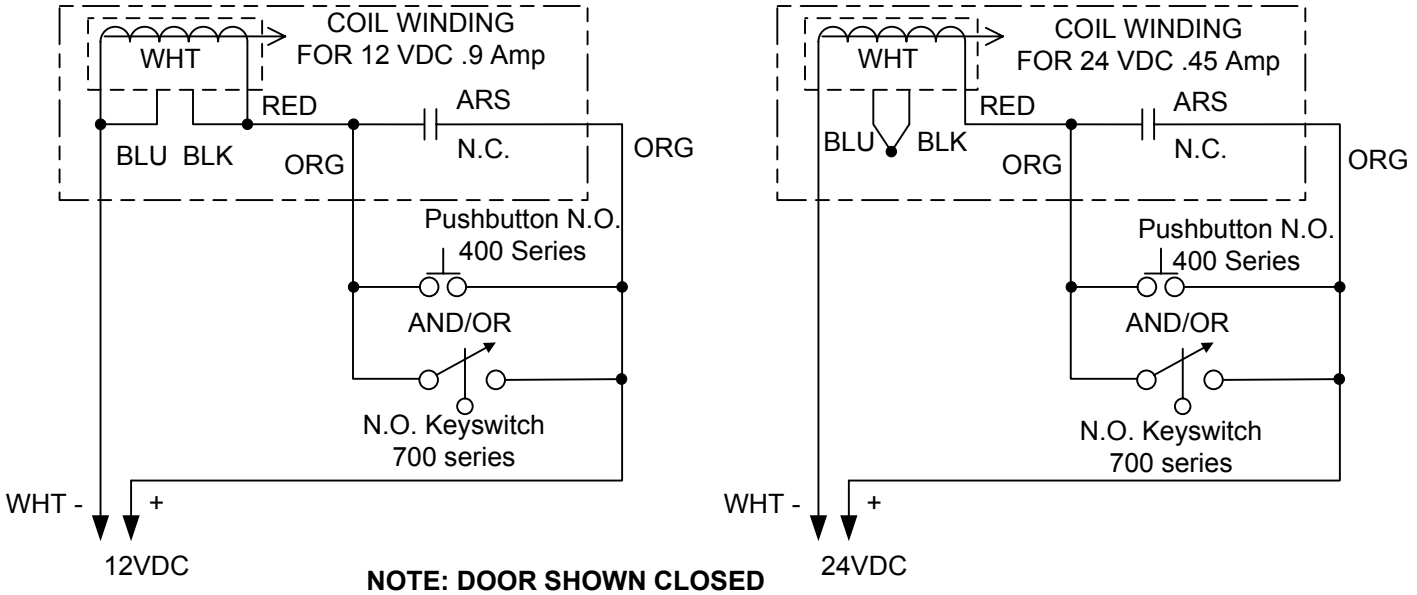
9. The automatic relock switch (A) is set for 1/8" clearance between the top of the door and the transom bar or head jamb. Any additional gap may be compensated for by loosening the lock nut and turning the assembly clockwise until proper adjustment is reached. Be sure to tighten lock nut when adjustment is satisfactory.

Easy installation or servicing

All Space Saver locks are easily installed in any existing entrance merely by mortising out a cut-out, attaching the wiring, inserting the lock, and bolting it into position with two attaching tabs. Cutting studs is no longer a problem or expense.



1200 SERIES



NOTE: DOOR SHOWN CLOSED

SPECIFICATIONS

Face plate: 8" x 1-1/2" x 1/8"
for wood door frames: 8-1/2" x 1-1/2" x 1/8"

I.D. Requirements: 1291A: 8" x 1-1/2" x 1-1/2"

Solenoid: Continuous duty, fail secure type
500mA @ 24VDC
1 Amp @ 12VDC

Strike: M-mortise 4" x 1-1/2" x 1/8"

Bolt: 5/8" dia. stainless steel, 3/4" throw

TROUBLE SHOOTING

Problem	Solution
Bolt will not retract	Check voltage and alignment of strike
Bolt does not project	Strike misaligned

MAGNETIC BOLT POSITION SENSORS

-6 SPDT	Indicates bolt locked or unlocked	.25 amp

MAGNETIC DOOR POSITION SENSORS

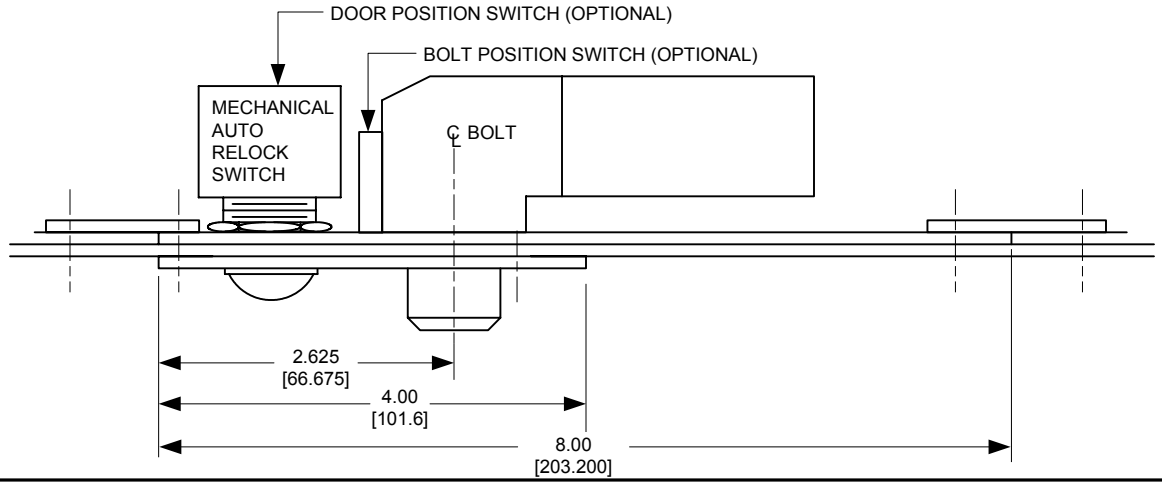
-9 SPDT	Indicates door open or closed	.25 amp

Mechanical Door Position Switch (DPS)

MECHANICAL DOOR POSITION SWITCH

DPS	Indicated door position switch 3 amp @ 30V

NOTE: Electrical boxes are available for most SDC mortise locks. We recommend electrical boxes whenever locks are installed in wood frames. (Request template).



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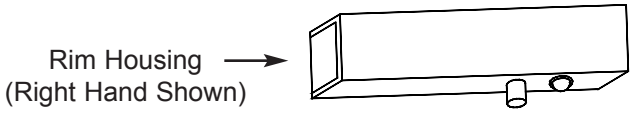
INSTALLATION TEMPLATE
RM1091A, RM1291A and RM1190A

The RM1091A, RM1291A and the RM1190A rim mount electric bolt locks are designed for reverse bevel doors. These locks are surface mounted on the face of the door and frame for installations that cannot accommodate mortise mounting.



MECHANICAL AND ELECTRICAL SPECIFICATIONS:

Housing: 9" L x 2" H x 2" W
Strike: 4" L x 2-1/4" H x 2" W

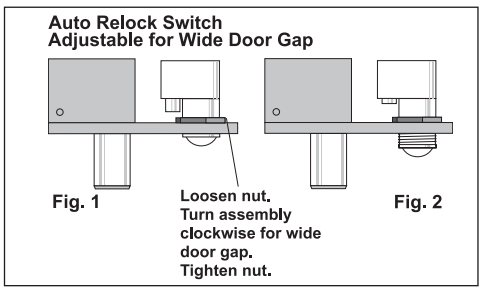
RM1019A: Fail-Safe, Continuous Duty
Bolt - 5/8" Stainless Steel - 3/4" Throw
Specify: 24 VDC or 24 VAC @ 0.5 Amp or
12 VDC @ 1.0 Amp

RM1291A: Fail-Secure, Continuous Duty
Bolt - 5/8" Stainless Steel - 3/4" Throw
Specify: 24 VDC or 24 VAC @ 0.5 Amp or
12 VDC @ 1.0 Amp

RM1190A: Fail-Safe, Continuous Duty
Bolt - 3/4" Stainless Steel - 3/4" Throw
Specify: 24 VDC @ 0.7 Amp or
24 VDC @ 0.7 Amp

Optional Sensors:
Sensor Wires: White-Com; Red-NO
Blue - NC
(-6) Bolt Position Sensor - SPDT, 0.25 Amp
(-9) Door Position Sensor - SPDT, 0.25 Amp

The automatic relock switch is set for 1/8" clearance between the top of the door and transom bar or head jamb. Any additional gap may be compensated for by loosening the lock nut and turning the switch assembly clockwise until proper adjustment is reached. Be sure to tighten lock nut when adjustment is satisfactory.



TROUBLE SHOOTING

Problem	Solution
Fail Safe	
Bolt does not project.	Check voltage. Check strike alignment.
Bolt chatters.	Voltage too low.
Bolt will not retract.	Strike not aligned.
Fail Secure	
Bolt does not retract.	Check voltage. Check strike alignment.
Bolt does not project.	Check spring. Strike not aligned.
Bolt projects with door open.	ARS bypassed. Check wiring.