SDC Security Door Controls

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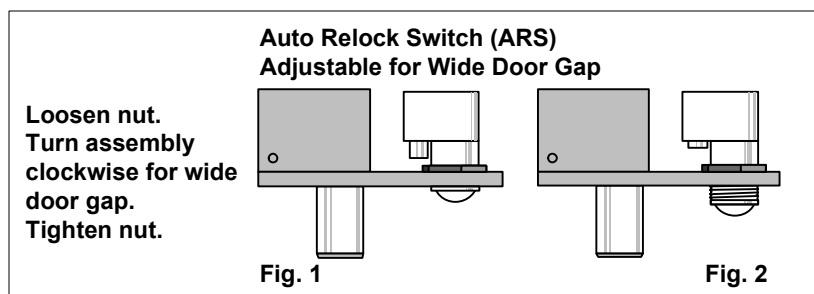
INSTALLATION INSTRUCTIONS
FS23M, 1090, 1190 SERIES

OVERHEAD INSTALLATION HORIZONTAL

1. Examine the top rail of the door for the most suitable location for the strike plate. 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. Continue to step 5.
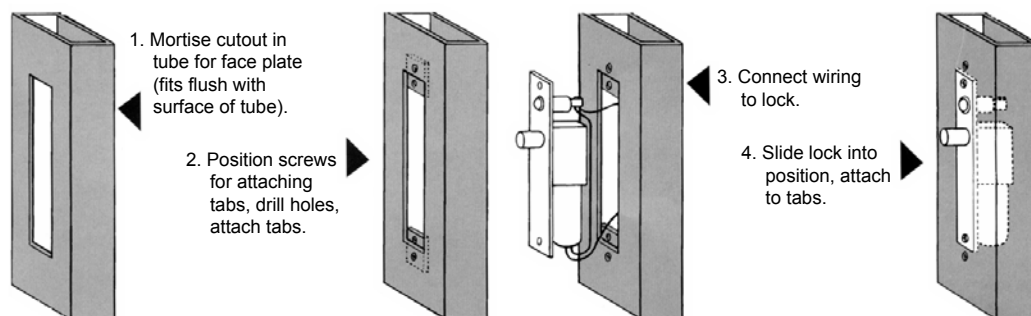
SIDEJAMB INSTALLATION VERTICAL

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 plate 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 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.

5. Attach the mounting tabs inside.

6. (FS23M only) bore 5/16" hole for pilot lamp on inside face of frame as shown on the template.

7. Attach power supply leads to lock leads as shown on page 2. Handle the lock carefully; do not hang it by the wire leads. Insert wiring into the header cavity carefully so they do not interfere with proper locating of the lock in the cutout.

8. Insert lock. When installed horizontally, the bolt end is nearest the lock stile. When installed vertically on the sidejamb, the bolt must be at the top end of the cutout. Secure with #10-32 machine screw.

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

10. The Automatic Relock Switch (ARS) 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.

Auto Relock Switch (ARS)
Adjustable for Wide Door Gap

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

Fig. 1   **Fig. 2**

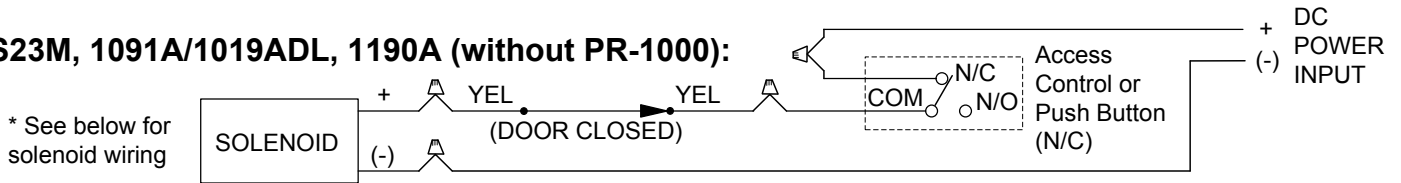### Easy Installation or Servicing

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.

1. Mortise cutout in tube for face plate (fits flush with surface of tube).

2. Position screws for attaching tabs, drill holes, attach tabs.

3. Connect wiring to lock.

4. Slide lock into position, attach to tabs.

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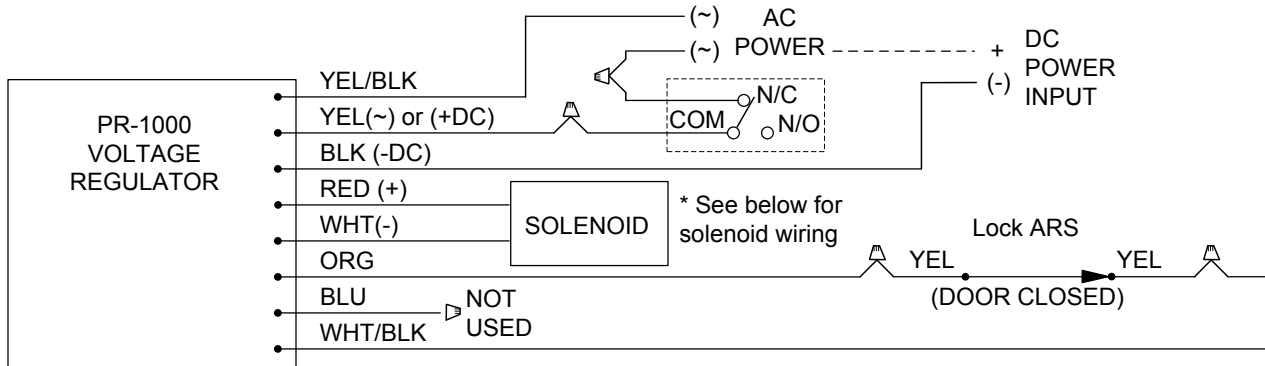
LOCK WIRING

NOTE: The SDC PR-1000 Power Regulator in included with the bolt lock. Although the solenoid is rated for continuous duty, continuously powering the solenoid will generate heat. Installing the PR-1000 reduces the power consumption of the bolt locks after activation of the lock, allowing for a heat reduction to the bolt lock, and increasing the life of the solenoid. DC voltage is recommended for improved heat reduction.

### FS23M, 1091A/1019ADL, 1190A (without PR-1000):

* See below for solenoid wiring

SOLENOID

+   YEL   YEL
(-)   (DOOR CLOSED)

COM   N/C   N/O   Access Control or Push Button (N/C)

+   DC POWER INPUT
(-)

FS23M, 1091A/1019ADL, 1190A (Wiring with PR-1000; recommended):

PR-1000 VOLTAGE REGULATOR

YEL/BLK
YEL(~) or (+DC)
BLK (-DC)
RED (+)
WHT(-)
ORG
BLU
WHT/BLK

(~)   AC
(~)   POWER   +   DC POWER INPUT
COM   N/C   N/O   (-)

SOLENOID

* See below for solenoid wiring

NOT USED

Lock ARS
YEL   YEL
(DOOR CLOSED)

Solenoid Voltage Configuration:

24VDC SOLENOID CONFIGURATION (All models, except 1091ADMR & 1190A)

Red (+)
BLK
BLU
WHT(-)

24VDC @ 450mA (max)
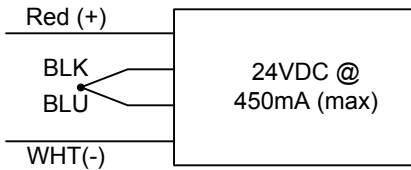
12VDC SOLENOID CONFIGURATION (All models, except 1190A)

Red (+)
BLK
BLU
WHT(-)

12VDC @ 900mA (max)
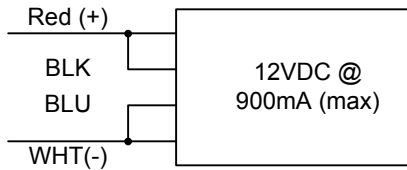
24VDC ONLY SOLENOID (Model 1190A only)

Red (+)
WHT(-)

24VDC @ 700mA (max)
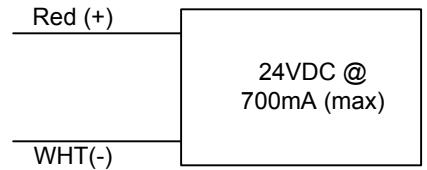
PR1000 Input Voltage: 12/24 VDC/VAC (+/-10%) NOTE: 1091ADMR & 1190A will operate at 24VDC only. DC voltage is recommended for optimal performance.

ELECTRICAL DATA:
Dual Voltage Solenoid (FS23M/1091A/1091ADL)
12VDC @ .9 Amp (max.)
24VDC @ .45 Amp (max)
Continuous Duty
24VDC Solenoid (1019ADMR & 1190A)
24VDC @ .7 Amp (max.); Continuous Duty

OPTIONAL BOLT POSITION SENSOR (BPS-MAGNETIC)		
B	Indicates bolt locked or unlocked	5 Watt
OPTIONAL DOOR POSITION SWITCH (DPS-MECHANICAL)		
D	Indicates door opened or closed	4A @ 300VDC (Resistive)

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 mis-aligned

RED = N/C   DPS polarity shown with door closed
WHT = COM   BPS polarity shown with bolt retracted.
BLU = N/O

ARS   RED = N/C
WHT = COM
DPS   BPS   BLU = N/O

DPS / BPS CONFIGURATION