SDC

SECURITY DOOR CONTROLS ■ WWW.SDCSECURITY.COM

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INSTALLATION INSTRUCTIONS

FS23MI
DUAL FAILSAFE CONCEALED MORTISE BOLT LOCK

OVERHEAD INSTALLATION HORIZONTAL

1a. 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.

2a. 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

1b. 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.

2b. 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.

3. Attach the mounting tabs inside.

4. Bore 5/16" hole for LED pilot lamp on inside face of frame as shown on page 3.

5. 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.

6. 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.

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

8. 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**
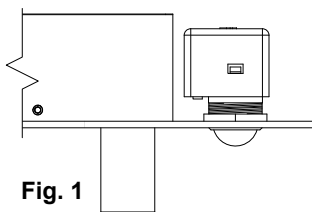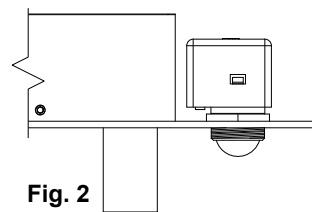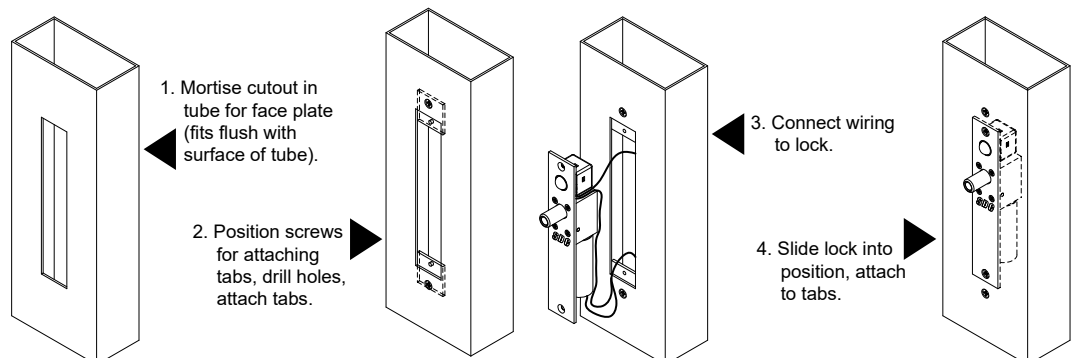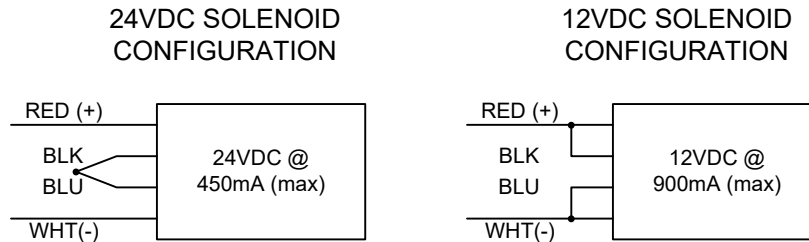
Easy Installation or Servicing

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

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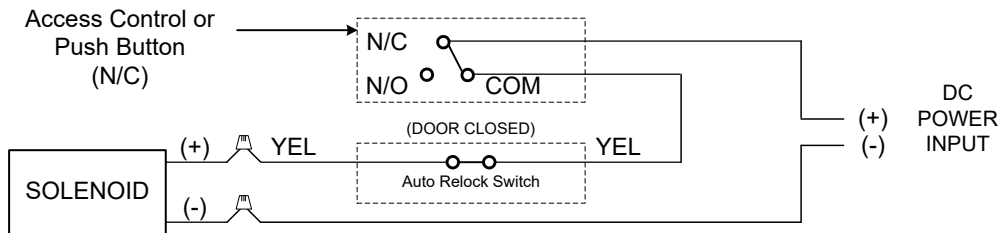
The SDC PR-1000 Power Regulator in included with the bolt lock. Although the solenoid is rated for continuous duty, continuously powering the solenoid will generate heat. Installing the PR-1000 reduces the power consumption of the bolt locks after activation of the lock, allowing for a heat reduction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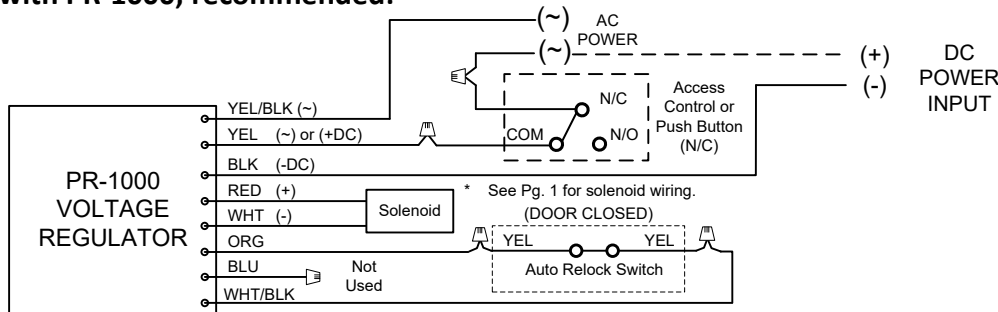
Solenoid Voltage Configuration:

24VDC SOLENOID CONFIGURATION

RED (+)
BLK
BLU
WHT(-)

24VDC @ 450mA (max)

12VDC SOLENOID CONFIGURATION

RED (+)
BLK
BLU
WHT(-)

12VDC @ 900mA (max)

Wiring without PR-1000:

Access Control or Push Button (N/C)

N/C
N/O   COM

(DOOR CLOSED)

YEL   YEL

Auto Relock Switch

SOLENOID   (+)   (-)

(+) DC POWER INPUT
(-)

Wiring with PR-1000; recommended:

(~) AC POWER
(~)

(+) DC POWER INPUT
(-)

N/C
COM   N/O

Access Control or Push Button (N/C)

PR-1000 VOLTAGE REGULATOR

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

Solenoid

Not Used

* See Pg. 1 for solenoid wiring.

(DOOR CLOSED)

YEL   YEL

Auto Relock Switch

PR-1000 Input Voltage:

12/24 VDC/VAC (+/-10%). DC voltage is recommended for optimal performance.

Electrical Data

Dual Voltage Solenoid:

12VDC @ .9 Amp (Max) Continuous Duty
24VDC @ .45 Amp (Max) Continuous Duty

OPTIOINAL BOLT POSITION SENSOR (BPS-MAGNETIC)

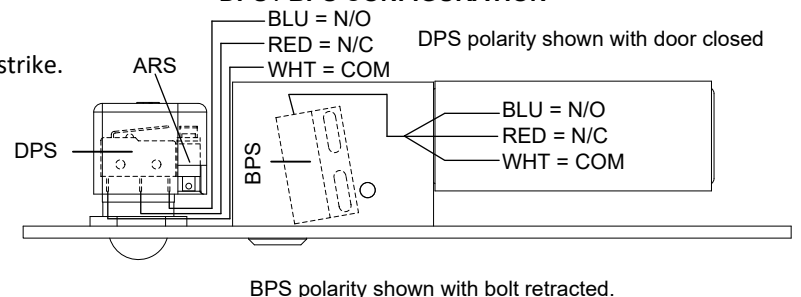B   Indicates bolt locked or unlocked   5 Watt

OPTIOINAL DOOR POSITION SWITCH (DPS-MECHANICAL)

D   Indicates door opened or closed   4A @ 30VDC (Resistive)
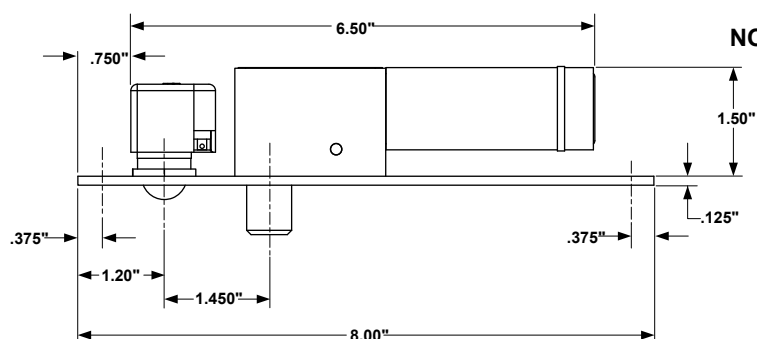
TROUBLE SHOOTING

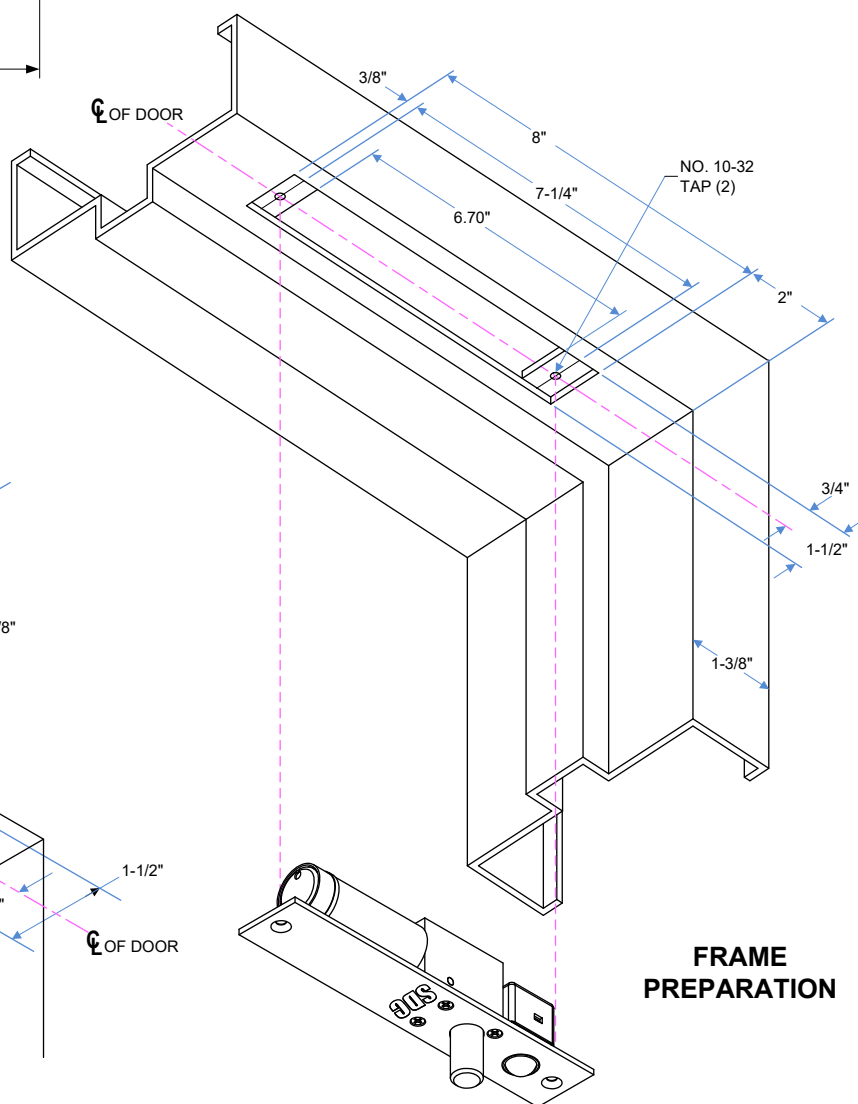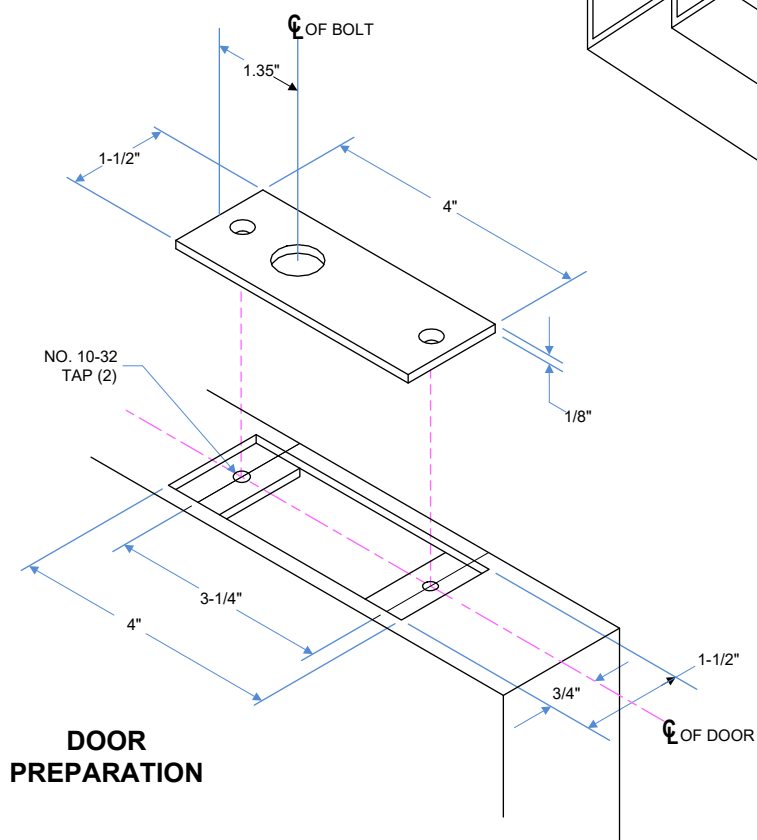| Problem:	Solution
Bolt does not project.	Check voltage and alignment of strike.
Bolt projects but chatters.	Voltage too low.
Bolt will not retract.	Strike is mis-aligned.

DPS / BPS CONFIGURATION

BLU = N/O
RED = N/C
WHT = COM

DPS polarity shown with door closed

ARS

DPS

BPS

BLU = N/O
RED = N/C
WHT = COM

BPS polarity shown with bolt retracted.

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FS23MI
DIMENSIONAL REFERENCES

NOTE: NOT TO SCALE. DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

DOOR PREPARATION

FRAME PREPARATION

TECHNICAL DATA (FOR STANDARD UNIT)

FACE PLATE:	8" x 1-1/2" X 1/8"
STRIKE:	4" x 1-1/2" x 1/8"
ID REQUIREMENTS:	8" x 1-1/2" x 1-1/2"
BOLT:	5/8" DIA. SOLID STAINLESS STEEL
BOLT THROW:	3/4"
PR-1000 MODULE:	3-3/4" x 1-1/4" x 1/2" (Required when mounted in frame.)