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SECURITY DOOR CONTROLS ■ WWW.SDCSECURITY.COM

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INSTALLATION INSTRUCTIONS

2090AH
FAILSECURE HEAVY DUTY CONCEALED MORTISE BOLT LOCK
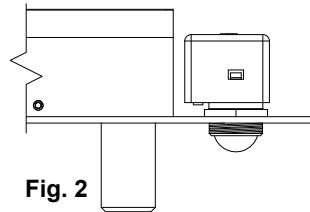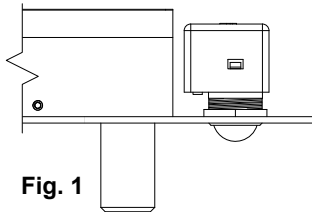
OVERHEAD INSTALLATION HORIZONTAL

1a. 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.

2a. 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.

SIDE JAMB 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 and make a corresponding mark on the jamb.

2b. Locate centerline 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".

3. Attach the mounting tabs inside frame.

4. 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.

5. 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.

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

7. 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.
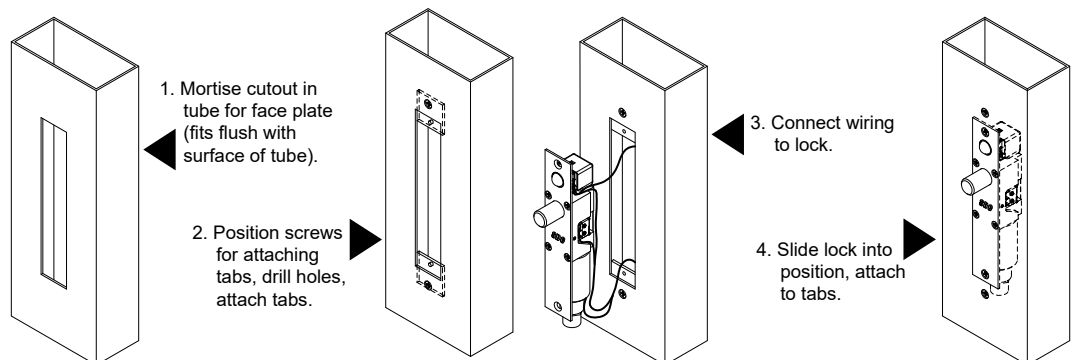
Auto Relock Switch (ARS)
Adjustable for Wide Door Gap

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 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.

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

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

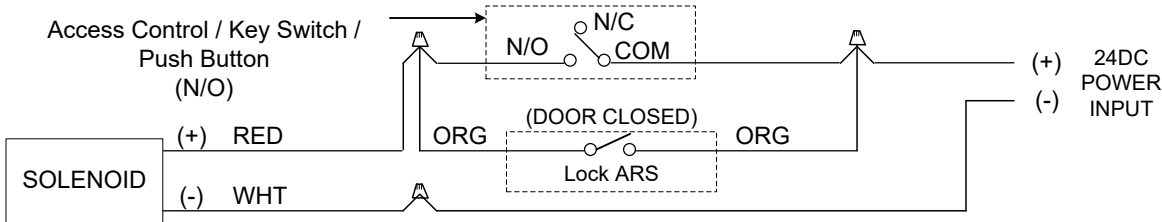3. Connect wiring to lock.

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
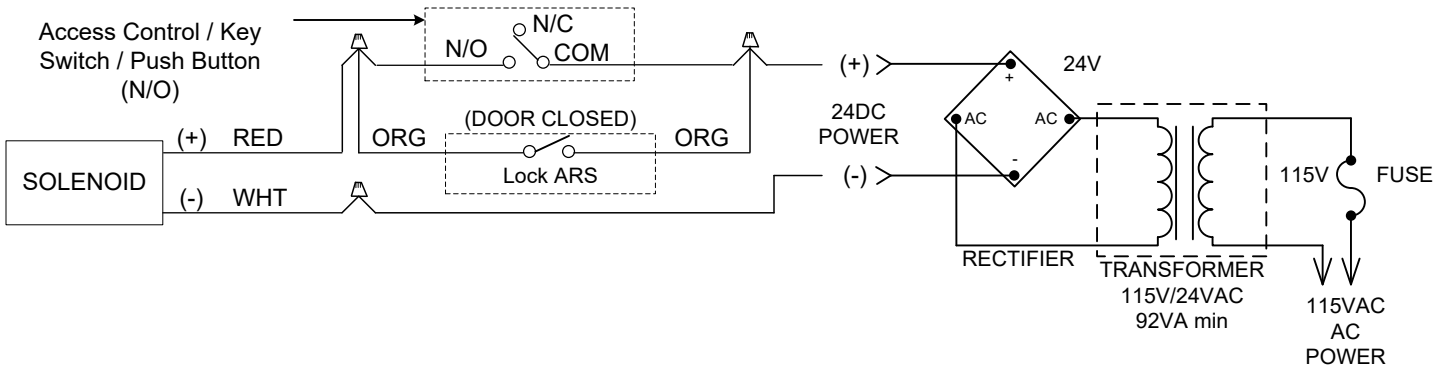
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WIRING INFORMATION

FOR DC OPERATION

Access Control / Key Switch / Push Button (N/O)

N/C
N/O
COM

(+) 24DC POWER INPUT
(-)

SOLENOID
(+) RED
(-) WHT

ORG   (DOOR CLOSED)   ORG
Lock ARS

FOR AC OPERATION

Access Control / Key Switch / Push Button (N/O)

N/C
N/O
COM

(+)
(-)

24DC POWER

24V

SOLENOID
(+) RED
(-) WHT

ORG   (DOOR CLOSED)   ORG
Lock ARS

AC AC
+
-

RECTIFIER

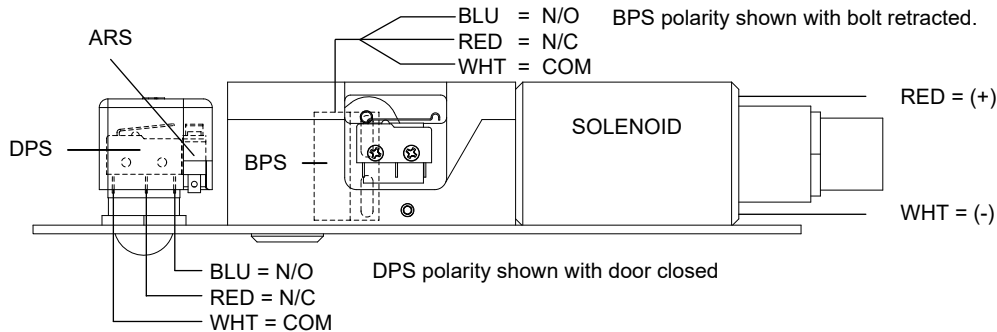TRANSFORMER 115V/24VAC 92VA min

115V   FUSE

115VAC AC POWER

SPECIFICATIONS

Face plate: 8" x 1-1/2" x 1/8"

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

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

Solenoid: Continuous duty, fail secure type
INRUSH: 2.5 AMPS MAX.
SEATED: .4 AMP MAX. @ 24VDC
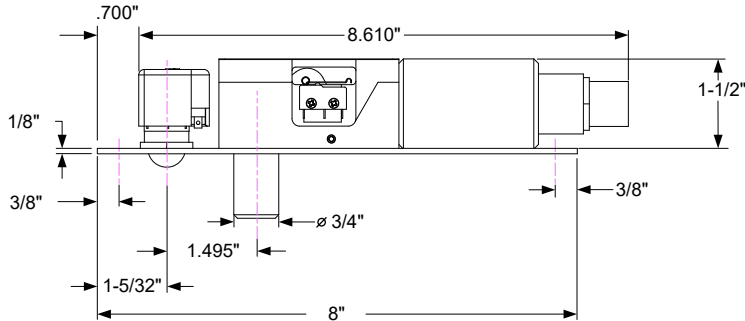
I.D.:   10" x 1-1/2" x 1-1/2"

OPTIONAL BOLT POSITION SENSOR - BPS

B   Indicates bolt locked or unlocked .25 amp

OPTIONAL DOOR POSITION SWITCH - DPS

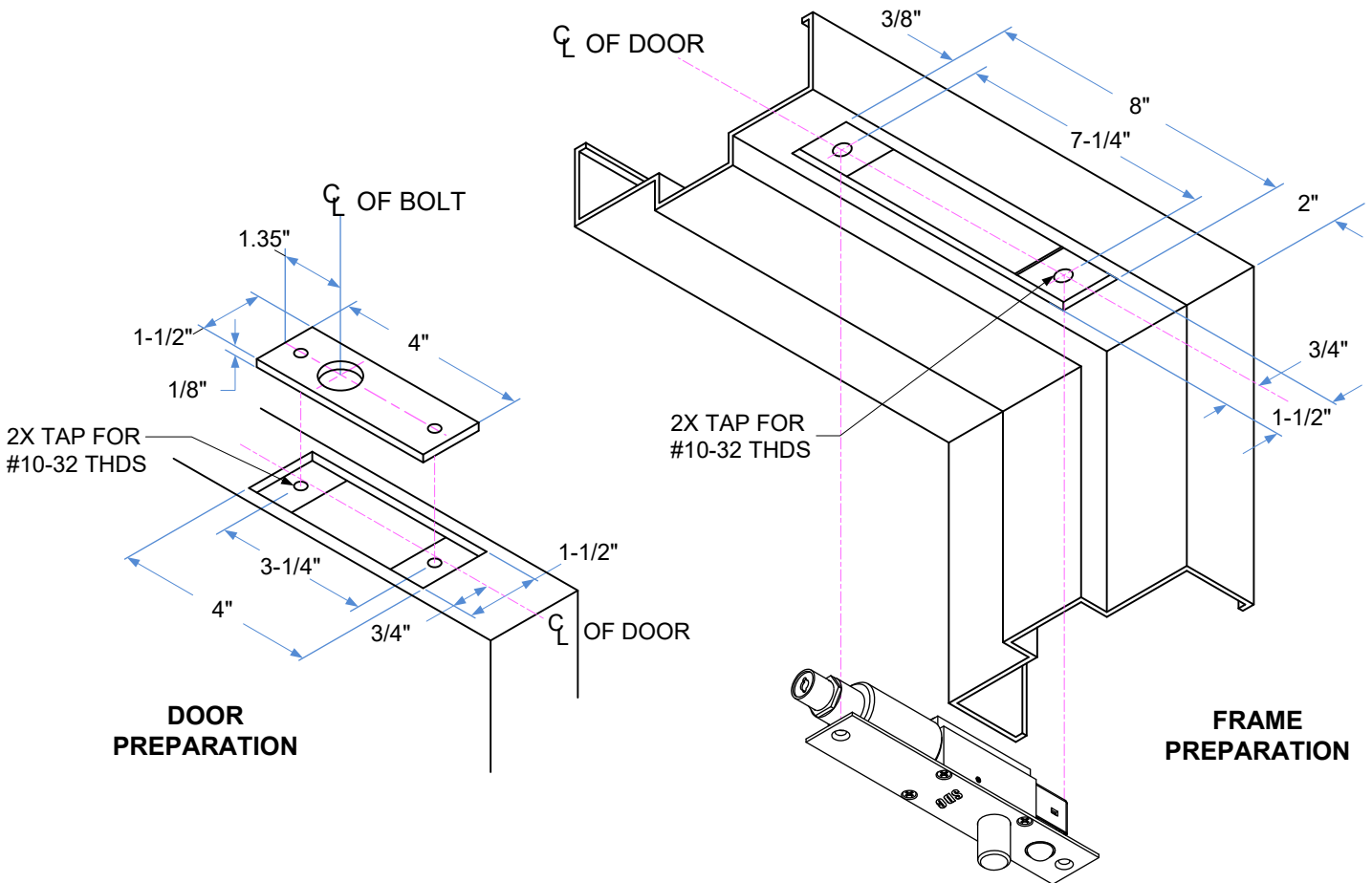**D**   Indicates door open or closed 5A@125VAC (Resistive)

ARS

DPS

BPS

SOLENOID

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

BPS polarity shown with bolt retracted.

RED = (+)

WHT = (-)

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

DPS polarity shown with door closed

TROUBLE SHOOTING

Problem	Solution
Bolt will not retract	Check voltage and alignment of strike
Bolt does not project	Strike is mis-aligned

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2090AH
METAL DOOR & FRAME INSTALLATION

NOTE: TEMPLATE 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: 10” x 1-1/2"   x 1-1/2"
BOLT: 3/4” DIA. SOLID STAINLESS STEEL
BOLT THROW: 3/4”