ENFORCER®

Electromechanical Push Bars

Installation Manual

SD-961B-36GSQ shown

RoHS CE

Model	Solenoid	Operating voltage	Color
SD-961A-36GQ	No	N/A	Silver
SD-961B-36GQ	No	N/A	Black
SD-961D-36GQ	No	N/A	Dark bronze
SD-961A-36GSQ	Yes	12~24 VAC/VDC	Silver
SD-961B-36GSQ	Yes	12~24 VAC/VDC	Black
SD-961D-36GSQ	Yes	12~24 VAC/VDC	Dark bronze

ENFORCER Electromechanical Push Bars feature a double-locking spindle for stronger and more secure locking. All models include a cylinder lock for keyed entry and some models offer solenoid-actuation to allow unlocking and relocking by an access control device.

- Double-locking spindle (stronger and more secure)
- Available in manual or solenoid-actuated versions
- Solenoid rated for both continuous and intermittent operation
- Aluminum alloy construction in a reversible, non-handed design
- Fail-Secure operation (but can be opened from inside by pressing the bar)
- Lock status monitoring for returning status to the access control system
- Mortise lock cylinder and keys included to release the lock from the outside
- Dogging latch on push bar to hold open
- Includes all needed hardware for typical installations

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Parts List

1x **Push bar**	2x **Flat-head screws**	1x **Dogging keyhole cap**	1x **Dogging key**
1x **Mounting template**	4x **Round-head screws**	4x **Mounting screw caps**	1x **Manual**

Strike Assembly

1x **Strike plate**	2x **Strike spacers**	1x **Flat-head wood screw**	1x **Hex tool**
1x **Hex wrench**	2x **Blind nuts**	2x **Flat-head machine screws**	

Lock Assembly

1x **Lock cylinder**	2x **Screws**	1x **Cylinder plate**	1x **Cylinder guard**	3x **Keys***

*No replacement keys available. Please keep a backup key in case of loss.

Specifications
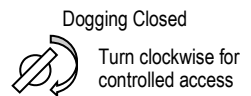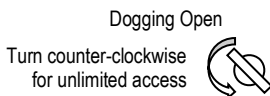
Model	SD-961A-36GQ	SD-961B-36GQ	SD-961D-36GQ	SD-961A-36GSQ	SD-961B-36GSQ	SD-961D-36GSQ
Operating voltage	N/A			12~24 VAC/VDC		
Current draw	N/A			1.5A@12VDC, 0.5A@12VDC after 3 seconds		
Entrance	External keyed lock			External keyed lock or access device		
Endurance	N/A			Over 500,000 cycles		
Contact load	5A@125VAC					
Output	Form "C" (NO/NC/COM) door monitor					
For doors	36" (91.5cm), minimum $32^7/_8$" (83.5cm), wood or metal, non-handed					
Latch	Double locking spindle					
Color	Silver	Black	Dark bronze	Silver	Black	Dark bronze
Material	Anodized aluminum					
Dimensions	$2^7/_{16}$"x$2^9/_{16}$"x$35^1/_{16}$" (61.5x65x890 mm)					
Weight	5-lb 10-oz (2.56kg)			6-lb 6-oz (2.88g)		

Overview

Push bar

$2^9/_{16}$" (65mm)

$35^1/_{16}$" (890mm)

$2^7/_{16}$" (61.5mm)

Dogging keyhole

Strike

Push bar and strike not drawn to scale

$1^{11}/_{16}$" (42.5mm)

$2^3/_4$" (69mm)

$13/_{16}$" (21mm)

$1/_2$" (13mm)
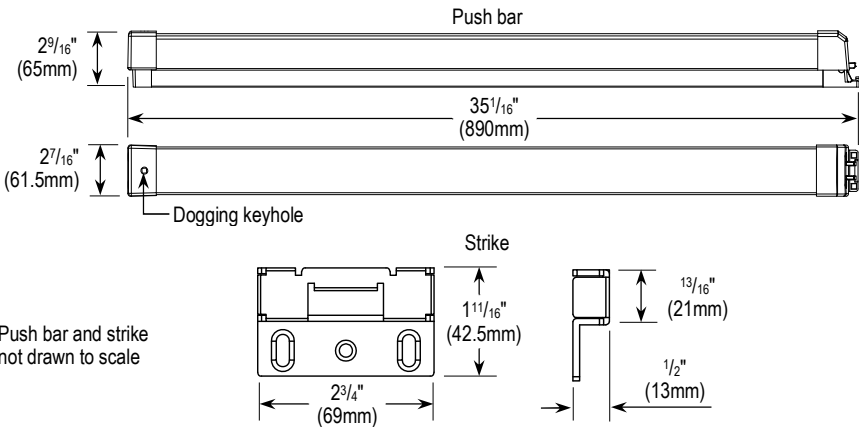
Dogging the Push Bar

Remove dogging keyhole cover and insert dogging key.

Dogging Open

Turn counter-clockwise for unlimited access
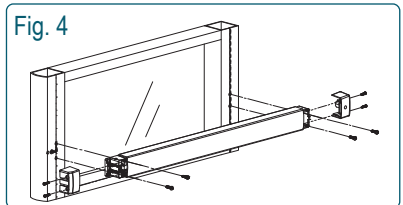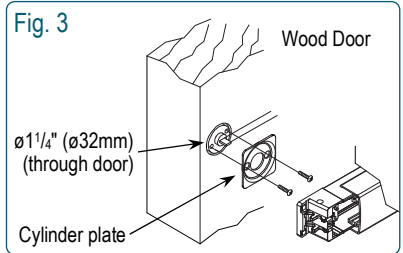
Dogging Closed

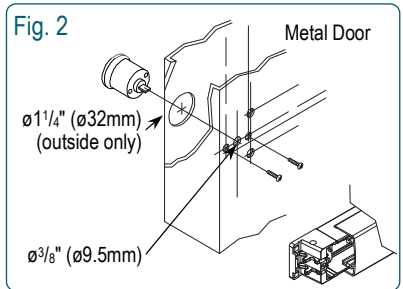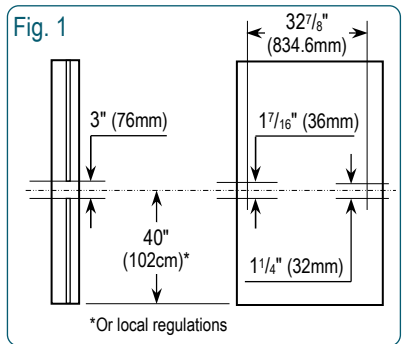Turn clockwise for controlled access

Installation

Please read the entire manual carefully before beginning installation

1. Measure and draw a horizontal line on the inside of the door 40" (102cm) above the floor or according to local regulations. This will be the push bar centerline.

2. Use the supplied metal template to mark lines for cutting away the stop for the strike assembly and all mounting holes and lock cylinder holes. Measure carefully to mark the two holes away from the locking mechanism, noting the different spacings (see Fig. 1).

3. Drill $3/16$" (4mm) mounting holes and other holes in the door and install lock assembly, ensuring the spindle extends at least $3/16$" (5mm) (see Fig. 2 for metal doors and Fig. 3 for wood doors).

4. Remove end cap screws and remove end caps. Slide the push bar off the base to access the terminals.

5. Thread the wiring through the wiring hole near the terminals. Install the push bar base (see Fig. 4) and connect wiring (see *Sample Application and Wiring Diagram* on pg. 4). Slide the push bar back into place and replace the end caps.

6. Drill the two blind nut holes, precisely $1/4$" (7mm), for the strike assembly (see Fig. 5).

   NOTE: The holes must be drilled to the precise size.

7. Insert a blind nut, put the washer on the hex screw followed by the hex tool (see Fig. 6). Turn the screw by hand into the blind nut. Use a wrench to hold the hex tool and slowly tighten the hex screw with the included hex wrench until it becomes difficult to turn. This compresses the blind nut so that it remains permanently fixed. Remove the hex screw and hex tool and repeat for the other blind nut.

Fig. 1

32$7/8$" (834.6mm)

3" (76mm)   1$7/16$" (36mm)

40" (102cm)*   1$1/4$" (32mm)

*Or local regulations

Fig. 2   Metal Door

ø1$1/4$" (ø32mm) (outside only)

ø$3/8$" (ø9.5mm)

Fig. 3   Wood Door

ø1$1/4$" (ø32mm) (through door)

Cylinder plate

Fig. 4

Fig. 5

2" (50mm)

ø$1/4$" (ø7mm) x2

3" (76mm)

Blind nuts x2

Spacer(s) (as needed to adjust position) (2 included)

Strike

Ensure the device is operating smoothly before drilling and installing 3rd screw

Fig. 6

Hex wrench

Washer

Hold with wrench while turning hex screw

Blind nut

Hex screw

Hex tool

Door frame

Installation (Continued)

8. Install the strike assembly as shown in Fig. 5 on pg. 3. Ensure a $^3/_{16}$" (4~5 mm) gap between the strike assembly and end cap (see Fig. 7). Use included spacers as needed.

9. Ensure the push bar and strike are operating smoothly and the locking spindle teeth fully engage the strike before tightening the two main strike assembly screws. Drill and install the middle screw as the final step (see Fig. 5 on pg. 3).
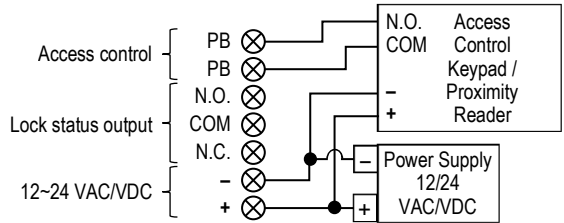
Fig. 7

End cap

Strike

$^3/_{16}$" (4~5 mm)
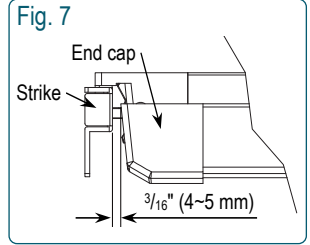
Wiring Diagram

SD-961x-36GQ Series Manual Push Bars
Connection to Lock Status Indicator

Brown N.O.
Green COM
White N.C.

Lock status indicator
Relay rating 5A@125VAC
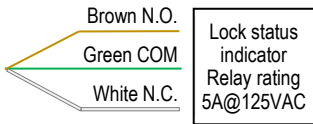
SD-961x-36GSQ Series Solenoid-Actuated Push Bars
Connection to Access Control Device

Access control — PB PB

Lock status output — N.O. COM N.C.

12~24 VAC/VDC — – +

N.O. Access
COM Control
– Keypad /
+ Proximity Reader

– Power Supply
+ 12/24 VAC/VDC

Connect lock status output according to status indicator directions

When connecting solenoid-actuated models to an access control system or a control device, note that the latch retraction duration is controlled by the connected N.O. switch.

Troubleshooting

Bar does not unlock when triggered (models with solenoid)	• Check the input voltage (12~24 VAC/VDC) • Check that the trigger switch is operating properly
Buzzing sound when activated (models with solenoid)	• This may sometimes result when using AC voltage. Change to DC if it persists
Device does not unlock	• Check back pressure on latch and adjust

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