



## Frame Actuator Controlled Locksets

**Hardwire Control with no Electric Hinge and no Wires in the Door.**

SDC HiTower® locksets comply with all national and regional building codes for locking interior office, elevator lobby, exit and stairwell fire rated doors, where the use of electric strikes and magnetic locks is prohibited. HiTower® locksets also provide higher security and superior aesthetics compared to exposed and vulnerable electric strikes and magnetic locks, while eliminating the need for request-to-exit devices. While providing controlled access and remote control capability the door stays latched even when unlocked, maintaining fire door integrity.

The HiTower® lock consists of a mechanical door lock controlled by an electric actuator installed in the frame. All access control and monitoring wires are maintained in the frame. Power transfer hinges and wires through the door are not required. All expenses associated with power transfer hinges are eliminated, including costs for door wire chases that must be factory prepared to maintain the door's fire ratings.

Pioneered and patented by SDC, since 1973, HiTower® lock technology has established the standard for security, safety and performance for electric locksets. Thousands of HiTower's® have been installed in buildings dominating city skylines worldwide.

### Applications

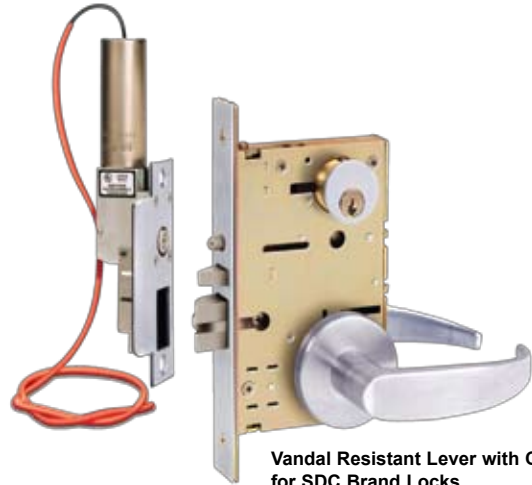
- High-rise stairwell doors
- Elevator lobby doors
- Perimeter exit doors
- Hospital communicating bathroom
- Office doors
- Computer rooms
- Equipment rooms
- Pharmacy storage rooms
- Money counting rooms
- Security and safety mantraps

### Order the Complete Lockset or Supply Locks for Conversion to Actuator Control Capability

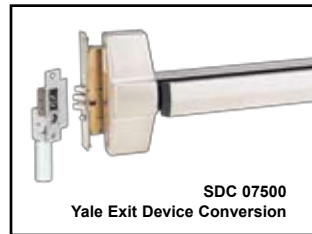
SDC can provide an SDC lockset with lever handles complete with the industry renowned HiTower® frame actuator. Or you may send the lock body of your choice to SDC for conversion.

**\*See page 3 for required lock model numbers.**

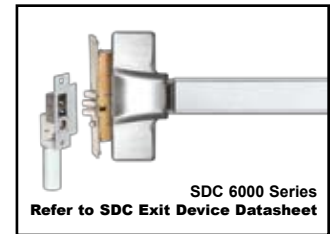
- Arrow
- Best
- Corbin/Ruswin
- SDC
- Falcon
- Sargent
- Schlage
- Yale



Vandal Resistant Lever with Clutch for SDC Brand Locks



SDC 07500  
Yale Exit Device Conversion



SDC 6000 Series  
Refer to SDC Exit Device Datasheet

### Features

- Electric Actuator for Standard Frame Fits Standard Strike Preparation
- Compact Actuator Design provides for Easy Frame Fit and Room for Wires
- Choice of Two Actuator Sizes for Standard or Narrow Frames
- Exclusive Alignment Compensation for Wide Door Gaps up to 0.3125" (8 mm)
- High Security Locking Operation Deadlocks The Latchbolt and Hubs
- Spring Loaded Hub Locking Mechanism Absorbs Pressure for Smooth Lever Action
- Mechanical Key Retracts the Latchbolt when locked

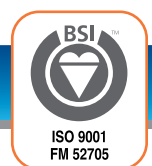
### Function

#### Failsecure Mode

Locked when de-energized, the failsecure mode is recommended for security applications. Such as, inner offices, equipment rooms and security mantraps. Loss of power causes all doors to lock. Battery back-up is required for continued operation during a power loss.

#### Failsafe Mode

Locked when energized, the failsafe mode is recommended for fire life safety applications. Such as, stairwell doors, perimeter exit doors and safety mantraps. Loss of power or a signal from the life safety system causes all doors to unlock for free uninhibited access and egress.



## HiTower® Advantage

### SDC 7500 Installation Requirements

- Mechanical Lockset or Exit Device
- Electric Actuator
- Mortar Back Box for Actuator

SEE FIG. 1A  
FIG. 1B  
FIG. 1C

FIG. 1A

power supply

HITOWER  
frame actuator

FIG. 1B

115VAC

HITOWER  
frame actuator

FIG. 1C

power supply

HITOWER  
frame actuator

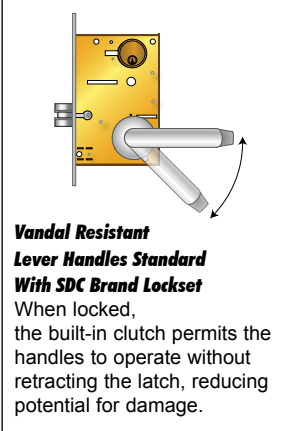
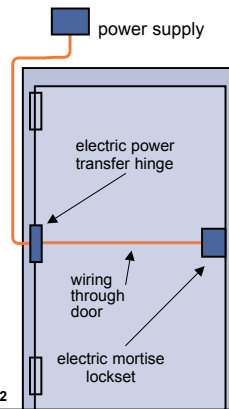
## Conventional Locksets

### Other Conventional Electric Lockset Installation Requirements

- Electrified Lockset
- Electric Power Transfer Hinge
- Mortar Back Box for Hinge
- Wires Through Door
- Wire preparation must be made by door manufacturer to maintain fire listing.
- Lock and electric hinge must be removed for troubleshooting.

SEE FIG. 2

FIG. 2



## LOCK FUNCTIONS

### Fail-safe - Power to Lock

Recommended for Fire Life Safety Applications. Unlocked by power loss or signal from the fire life safety system. See SDC power supplies with fire life safety system interface for release of locks in an emergency.

#### 7530

##### Locked from both sides

Locked when energized, unlocked by an access control, remote control or a key from either side (SEE FIG. 3).

**Suggested use:** Openings that are to be locked on both sides, such as: communicating doors; inner offices; safety mantraps.

#### 7550

##### Locked outside only, free egress from the inside.

Locked when energized, unlocked by an access control, key from the outside. Uninhibited egress at all times by rotating the inside lever (SEE FIG. 4).

**Suggested use:** Stairwell doors, lobby doors, exit doors, inner offices, safety mantraps, communicating bathrooms.

### Fail-secure - Power to Unlock

Recommended for High Security Applications. Power loss causes doors to lock. See SDC power supplies for continued operation during power failures. (SDC and Schlage only)

#### 7560

##### Locked from both sides

Locked when de-energized, unlocked by an access control, remote control or a key from either side (SEE FIG. 3).

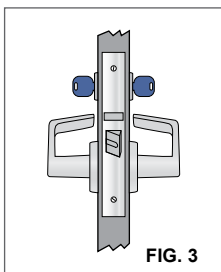
**Suggested use:** Openings that are to be locked on both sides, such as: communicating doors, inner offices, security mantraps.

#### 7570

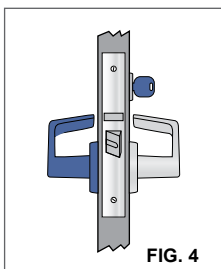
##### Locked outside only, free egress from the inside.

Locked when de-energized, unlocked by an access control, key from the outside. Uninhibited egress at all times by rotating the inside lever (SEE FIG. 4).

**Suggested use:** Inner offices, computer rooms, equipment or storage rooms, cashier rooms, security mantraps.



7530 / 7560



7550 / 7570

## Models

Source codes indicate the origin, brand and model of the mechanical lockset.

### Hitower® Pro SDC Lockset with lever trim

- Z** SDC Brand Lockset  
**ZY** SDC retrofit lockset replaces SDC modifications of discontinued manufacturer models: Falcon-LM581; Sargent-7704/7705; Corbin-9557L/2257; Russwin- 7059L; Arrow-1600EW; Yale-8705; Almet-5007; Best-35HEW  
**ZR** SDC Replaces discontinued SDC 5000 series

### Hitower® Mod

#### Major Brand Electrified Lock Chassis, Less Trim, Provided by SDC Factory

- ZS** Schlage    **ZD** Sargent    **ZP** Yale  
**ZA** Falcon    **ZN** Arrow    **ZT** Best  
**ZI** Corbin Russwin

### Mortise Locks Supplied by Distributor

Distributors supply SDC with the mortise lock body and armored front (less trim) for modification. SDC returns the modified lock body with an electric actuator. Upon installation, two lever return spring cages (supplied by distributor) are required for proper operation.

- A** Falcon LM-561  
 \* Falcon - Distributor supplies faceplate 020100-000  
**D** Sargent 8204  
**I** Corbin/Russwin 2057  
**N** Arrow B12  
**O** Yale 7130F-L5 Exit Device  
**P** Yale 8705FL & 8805S  
**R** Schlage Retrofit L9080  
 (Replaces discontinued SDC 5000)  
**S** Schlage L9080  
**T** Best 45H  
**U** Dorma ML9050  
**V** Marks 5J

## Functions

- 7530** Locked both sides, failsafe.  
**7550** Locked outside only, failsafe.  
**7560\*** Locked both sides, failsecure  
**7570\*** Locked outside only, failsecure.  
 \*(SDC and Schlage only)

## Hand

- L** Left Hand    **LR** Left Hand Reverse  
**R** Right Hand    **RR** Right Hand Reverse  
 (SEE FIG. 5 Page 4)

## Voltage

**Standard fail-safe actuators**  
 For 1.750" to 2" (44.5 to 50.8 mm) face frames.

- A** 115VAC    **B** 24VAC    **C** 24VDC

### Narrow failsafe actuators

For 1.25" to 1.5" (31.7 to 38 mm) face frames.

*Special strike preparation required.*

- D** 115VAC    **E** 24VAC    **F** 24VDC

### Failsecure actuator

For 2" (50.8 mm) face frames.

*Special strike preparation required for Schlage.*

*Available with source Z, ZR and S, Schlage L9080 only.*

- G** 115VAC    **H** 24VAC    **J** 24VDC

## Finish

- C** 605 Bright Brass  
**D** 606 Dull Brass  
**F** 611 Bright Bronze  
**G** 612 Dull Bronze  
**H** 613 Oil Rubbed Bronze  
**P** 625 Bright Chrome  
**Q** 626 Dull Chrome (Standard)  
**S** 629 Polished Stainless  
**U** 630 Dull Stainless

## Levers

Lever handles are specified with SDC supplied locksets only, source Z and ZR. All SDC Levers shown here are ADA Compliant.



**G** Galaxy with rose

**E** Eclipse with rose

**N** Nova with rose



**07** Schlage equivalent with SDC B rose

**12** Schlage equivalent with SDC B rose



**GE** Galaxy with escutcheon

**EE** Eclipse with escutcheon

**Nova** Nova with escutcheon

## Options

**L** Latch Status  
 Indicates the door is closed and latched, and unlatched or open.

**S** Latched and Deadlocked Status  
 Indicates that the door is closed, latched and locked, and/or the door is unlatched or unlocked.

### SC-10 10 ft Cable & Connectors

The cable and connectors enable electrical contractors to finish wiring in advance of lock installation. Additionally, the use of socket connectors provide for quick and easy troubleshooting.

**SC-10-5** 10 ft Cable & Connectors for locks with options.

### SSP Retrofit Strike

For existing hollow metal frame or wood door installations.

### Extended Lip Strikes

Specify in writing. Up to 2" maximum.

### Specification Examples

*Distributor supplied lockset*

**S 7550 LR C Q SC10**

*SDC supplied lockset*

**Z 7550 LR C Q LS SC10-5**

### Actuator Mortar Guard Back Boxes

UL Listed.

(SEE FIG. 6)

#### 7500EB-S

For standard actuators installed in 1-3/4" and 2" (44.5 to 50.8 mm) face frames.

#### 7500EB-N

For narrow actuators installed in 1-1/4" and 1-1/2" (31.7 to 38 mm) face frames.

#### 7560EB-2

For failsecure actuators installed in 2" (50.8 mm) face frames.



**07** Schlage equivalent with escutcheon



**12** Schlage equivalent with escutcheon

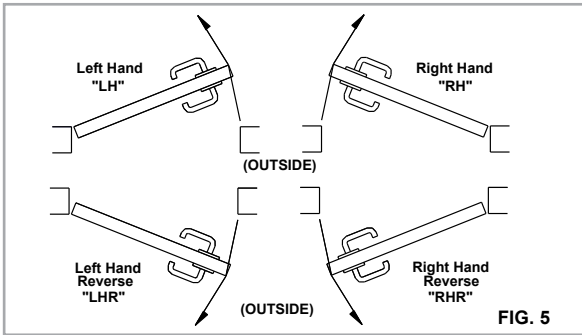


FIG. 5

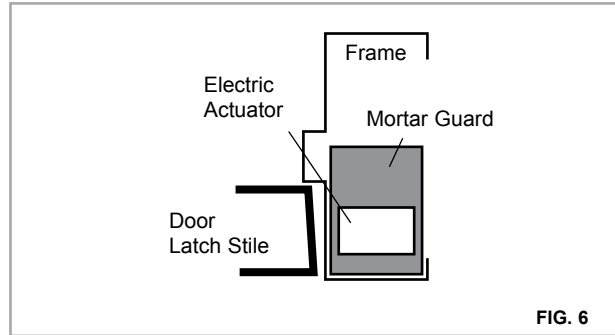


FIG. 6

**Mechanical Lock Specifications**

- ANSI 156.13 Grade 1
- Backset: 2.75" (69.85mm)
- Minimum Door Thickness: 1.75" (44.4mm)
- Supplied Less Key Cylinders

**Frame Actuator**

**Standard Frame Actuator Strike Prep**

Standard ANSI 4-7/8" x 1-1/4"

For 1-3/4" to 2" face frames.

The standard strike preparation

does not require modification.

Strike and lock body offset depends on lock brand

**Narrow Frame Actuator Strike**

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

For 1-1/4" to 1-1/2" narrow face frames.

This is a modified frame preparation.

**Failsecure Actuator Strike**

SDC Z7560, Z7570: 4-7/8" x 1-1/4"

Schlage S7560, S7570: 5-3/4" x 1-1/4"

For 2" face frames.

This is a modified frame preparation.

**RS Retrofit Strike**

9" x 1.25"

For 2" inch hollow metal frames

or pairs of wood doors

**Electrical Specifications**

0.5 Amp @ 24VDC

0.5 Amp @ 24VAC

0.2 Amp @ 115VAC

**L** Latch Status: SPDT, 5 Amps @ 30V

**S** Latch & Deadlock Status:  
SPDT, 3 Amps @ 30V

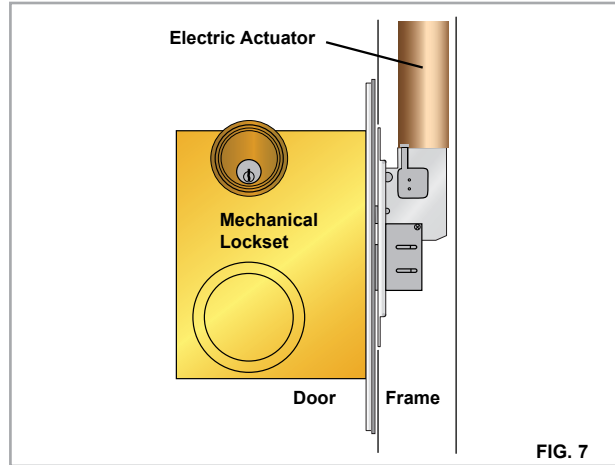


FIG. 7

**Competitive Lock Comparison Chart**

SDC - HiTower®	ACSI - Gemini	Corbin/Russwin
<b>Failsafe</b>		
7530	8500-M2-PL	ML22960
		ML22907
7550	8500-M1-PL	ML22950
		ML22905
<b>Failsecure</b>		
7560	8500-M2-PUL	ML22980
		ML22909
7570	8500-M1-PUL	ML22970
		ML22908
<b>Options</b>		
SC-10	QC	
L SPDT <i>(Latch Status only)</i>	N/A	
S SPDT <i>(Latch &amp; Deadlock Status)</i>	CLS Closed loop only OLS Open loop only <i>(SPDT not available)</i>	
<b>Mortar Guard</b>		
7500EB-S <i>(1.75" - 2" Face Frames)</i>	302-03-02	
7500EB-N <i>(1.25" - 1.5" Face Frames)</i>	303-03-04	

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www.sdsecurity.com service@sdsecurity.com

[t] 800.413.8783 805.494.0622 [f] 805.494.8861

801 Avenida Acaso, Camarillo CA 93012 • PO Box 3670, Camarillo CA 93011-3670