ELECTRIFIED LOCKSETS

Code Compliant Egress & Security Hardware

the lock behind the system

SDC
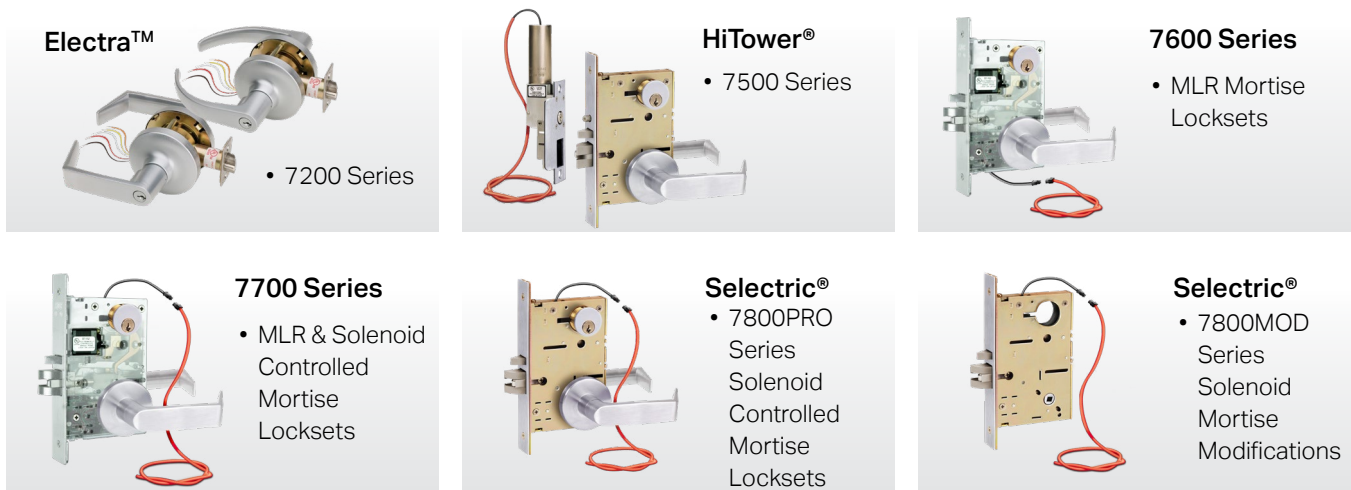**Security Door Controls**

TABLE OF CONTENTS

INTRODUCTION

SDC electrified locksets are building and fire life safety code compliant for fire rated office doors, corridor doors, lobby doors, exit doors and stairwell doors. HiTower®, Selectric® and Electra™ locksets provide both the locking and latching features required for fire rated doors to meet security needs and fire life safety code requirements. Whether failsafe or failsecure, controlled access and remote control capability is provided while the door stays latched even when unlocked, maintaining fire door integrity. Since 1972 SDC has set the standard for security, safety and performance for electric locksets. Thousands of SDC electrified locksets have been installed in buildings dominating city skylines worldwide. Additional benefits of electrified locksets include:

SDC HiTower®

SDC Selectric®

SDC Electra™

- Compatible with any type of access control
- Available as failsafe or failsecure
- Available in a variety of trim and finish options

Facility applications include: commercial high-rise buildings, industrial and technology centers, healthcare, transportation, government and military facilities, museums and universities.

Electra™
- 7200 Series

HiTower®
- 7500 Series

7600 Series
- MLR Mortise Locksets

7700 Series
- MLR & Solenoid Controlled Mortise Locksets

Selectric®
- 7800PRO Series Solenoid Controlled Mortise Locksets

Selectric®
- 7800MOD Series Solenoid Mortise Modifications

Our U.S. factory has been retooled to build more products in-house - including electrified locksets – to diminish supply chain issues, increase quality control and cut lead times.
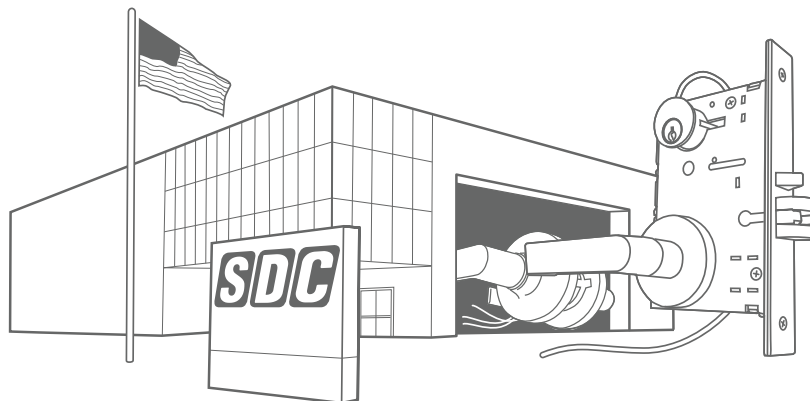
WHY ELECTRIFIED CYLINDRICAL LOCKSETS

Electrified cylindrical locksets are similar to mechanical cylindrical locksets but include a built-in solenoid to keep the latch from retracting when turning the handle from the outside of the door. From the inside of the door, the latch can be retracted by turning the handle, ensuring free egress for code compliance.

Entering the door from the outside requires a key or access control to disengage the solenoid, allowing the latch to retract when turning the handle. Electrified cylindrical locksets are typically less expensive than electrified mortise locksets and are well suited for both new and retrofit construction.

APPLICATION

Electrified cylindrical locks may be used on non-fire-rated and fire-rated wood, mineral core and hollow metal doors. Additionally, SDC's building code compliant 7200 Series electrified cylindrical locksets stay latched even when unlocked, maintaining fire door integrity. This basic ability complies with national code requirements for up to 3-hour fire-rated doors, including elevator lobby and stairwell doors where electromagnetic locks and electric strikes are not permitted.

Electrified cylindrical locks eliminate the need for exposed and vulnerable locking devices, such as electric strikes, magnetic locks and remote request-to-exit devices. Additionally, they are ideal for high profile installations that require high security or superior appearance.

WHY ELECTRIFIED MORTISE LOCKSETS

Electrified mortise locksets are equipped with a solenoid to enable or disable the outside door handle. The latchbolt can be retracted from the secured side simply by turning the handle. On the outside of the door, the handle will not engage the locking mechanism to open unless the solenoid is engaged.

This function ensures that anyone inside can get out simply by turning the handle, but an outside credential must use a key or an electrical means to disable the solenoid and unlock the door. Electrified mortise locks usually have a mechanical override function so that they can be opened by using a key or by turning the handle. Some electrified mortise locks incorporate a motor for retracting the latchbolt, while others may include both a solenoid and motor – depending on the application requirements.
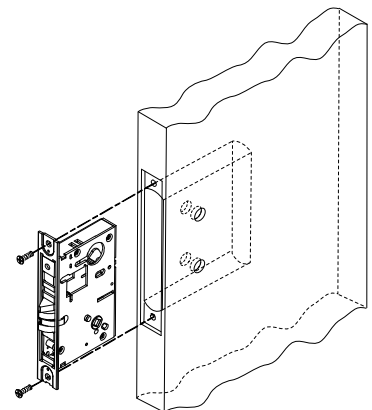
Electrified mortise locksets are well suited for both new and retrofit construction and can be more expensive than electrified cylindrical locksets because they typically provide a higher level of security.

MORTISE LOCKS DEFINED

A mortise lock usually combines a latch and deadbolt in one door lock that is installed in the door itself, requiring a pocket or mortise to be cut into the edge of the door for installation. Because the internal locking mechanisms are contained within the door, mortise locks offer increased security and privacy that cannot be easily tampered with or bypassed. With no hardware visible from the outside, the tamper-proof design of mortise locks also provide a better design aesthetic.

The noun mortise – "a hole or groove in which something is fitted to form a joint" – comes from 13th century Old French "mortaise", or possibly from Arabic "murtazz", a past participle of "razza", meaning to "cut a mortise in".

Mortise locks have been in use since the mid-18th century and have proven to be one of the most secure locking mechanisms available. Many mortise locks feature a built-in cylinder to be used with a key for extra security.

WHY ELECTRIFIED MORTISE LOCKSETS

Over time, mortise locks have evolved to provide passage, privacy, and deadlock functions, allowing installers to set the lock for a specified outcome. As such, they are a popular safety and security solution for a variety of requirements.

APPLICATION

Owing to their strength and durability, electrified mortise locks are most often used where security is vital. They may be used on non-fire rated and fire rated wood, mineral core and hollow metal doors. Additionally, SDC's building code compliant electrified mortise locksets stay latched even when unlocked, maintaining fire door integrity. This basic ability complies with national code requirements for up to 3-hour fire rated doors, including elevator lobby and stairwell doors where electromagnetic locks and electric strikes are not permitted.

Electrified mortise locks eliminate the need for exposed and vulnerable locking devices, such as electric strikes, magnetic locks and remote request-to-exit devices. What's more, they are ideal for high profile installations that require high security or superior appearance.

# ELECTRIFIED LOCKSET FUNCTIONALITY

FAILSAFE OPERATION

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 backup is required for continued operation during a power loss.

FAILSECURE OPERATION

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.
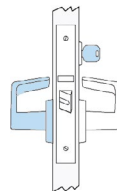
LOCKED BOTH SIDES FUNCTION

Unlocked by an access control, remote control or key from either side.
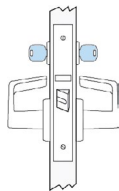

LOCKED OUTSIDE ONLY FUNCTION

Unlocked by an access control or key from the outside. Uninhibited egress at all times by turning the inside lever handle.

LOCKED OUTSIDE AND/OR INSIDE FUNCTION

Unlocked by an access control, remote control or key from either side. Alternately, unlocked by an access control or key from the outside and uninhibited egress at all times by turning the inside lever handle.

ELECTRIFIED CYLINDRICAL LOCKSETS

SDC *Electra*™
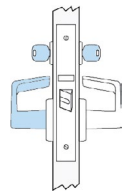
7200 Series
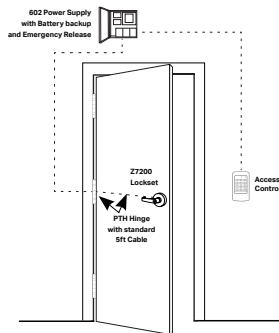
Solenoid Controlled Cylindrical Locks

SDC's Electra™ 7200 series solenoid controlled cylindrical locks are designed for the access control of openings in commercial, industrial and institutional facilities where code compliance, dependable operation and resistance to physical abuse are required. These code compliant electric cylindrical locksets stay latched even when unlocked, maintaining fire door integrity and eliminating the need for exposed and vulnerable electric strikes and magnetic locks or request-to-exit devices.

7200 series models incorporate a grade 1 cylindrical lockset and vandal resistant clutch – proprietary to all SDC locksets. 7200 series locks come standard with built-in latch status monitoring, REX optional. They replace most brands of mechanical locksets making them fully compatible with new and retrofit applications.

Electra™ 7200 series standard features include:

- Heavy duty cylindrical design
- New or retrofit construction
- Vandal resistant clutch
- Solenoid control
- Key latch retraction
- Field selectable dual voltage
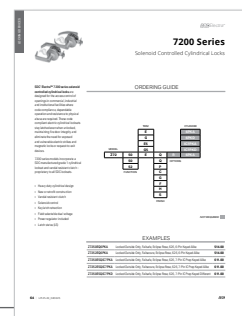- Power regulator included
- Latch status (LS)

602 Power Supply with Battery backup and Emergency Release

Z7200 Lockset

PTH Hinge with standard 5ft Cable

Access Control

Features & Specs
7200 Datasheet
www.sdcsec.com/7200-datasheet

Part Numbers & Pricing
7200 Pricesheet
www.sdcsec.com/7200-pricesheet

Common Part Numbers

|	
Z7250EQ	Locked Outside Only, Failsafe, Eclipse Rose, 626
Z7252EQ	Locked Outside Only, Failsecure, Eclipse Rose, 626
Z7250EQ6PKA	Locked Outside Only, Failsafe, Eclipse Rose, 626, 6-Pin Keyed Alike
Z7252EQ6PKA	Locked Outside Only, Failsecure, Eclipse Rose, 626, 6-Pin Keyed Alike
Z7252E5QR	Locked Outside Only, Failsecure, Eclipse Rose, I-Core Prep, 626, REX
Z7252E5QIC7PKA	Locked Outside Only, Failsecure, Eclipse Rose, I-Core Prep, 626, 7-Pin IC, Small Format, Keyed Alike

SDC HiTower®

7500 Series

### Solenoid Frame Actuator Controlled Mortise Locksets

SDC's HiTower® 7500 series solenoid frame actuator controlled mortise locks are an evolution of SDC's original, patented design for using an electric frame actuator to control a modified mechanical door lock or exit device and is the groundbreaking product technology upon which SDC was founded over 50 years ago. Elegant in their simplicity, HiTower® locks provide hardwire control with no electric hinge and no wires in the door which eliminates costly parts and labor.
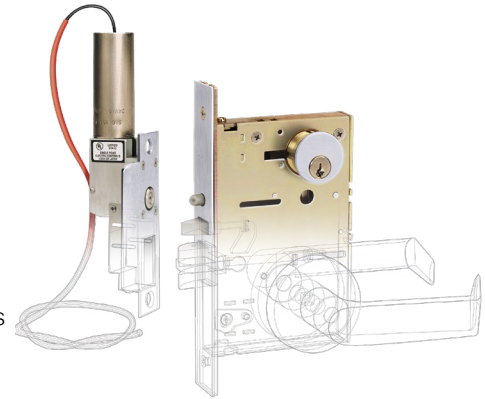
HiTower® locks provide building and fire life safety code compliance for fire rated office doors, corridor doors, lobby doors, exit doors and stairwell doors because all wires are contained in the door frame – eliminating the need for manufacturers to prep the door for wires to maintain fire ratings.

HiTower® 7500 series standard features include:

- Heavy duty mortise design
- New or retrofit construction
- Vandal resistant clutch
- Solenoid frame actuator control
- Adjustable wide door gap compensation
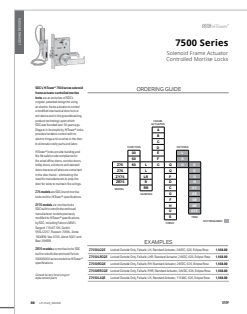- Key latch retraction
- Schlage trim compatible
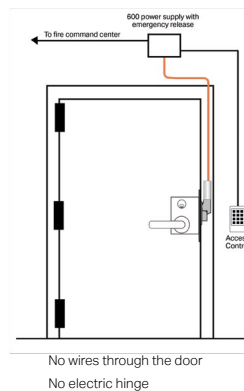
Features & Specs 7500 Datasheet
www.sdcsec.com/7500-datasheet

Part Numbers & Pricing 7500 Pricesheet
www.sdcsec.com/7500-pricesheet

Common Part Numbers

Z7550LCQE — Locked Outside Only, Failsafe, LH, Standard Actuator, 24VDC, 626, Eclipse Rose

Z7550LRCQE — Locked Outside Only, Failsafe, LHR, Standard Actuator, 24VDC, 626, Eclipse Rose

**Z7550RCQE** — Locked Outside Only, Failsafe, RH, Standard Actuator, 24VDC, 626, Eclipse Rose

ELECTRIFIED MORTISE LOCKSETS

7600 Series

### Motorized Latch Retraction Controlled Mortise Locks

Electric solenoids have been used for decades in electrified hardware to operate deadbolts and retract or dog latchbolts. During periods of extended use, solenoids can become quite heated and noticeably sluggish. With advancements in electric motor technology, the use of a motorized electric latch retraction device provides several advantages over solenoids including lower current draw, quieter operation and greater durability over time. In 2018, SDC was one of the first in the industry to offer a MLR controlled mortise lock with the introduction of the 7600 series.

Motorized electric latch retraction (MLR) mortise locksets replace existing mechanical or electrified mortise locksets for the access control of openings in commercial, industrial and institutional facilities where code compliance, dependable operation and resistance to physical abuse is required. These code compliant electric mortise locksets stay latched even when unlocked, maintaining fire door integrity.
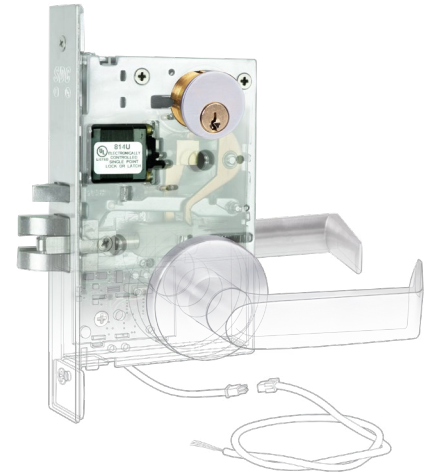
7600 series standard features include:

- Heavy duty cylindrical design
- New or retrofit construction
- Vandal resistant clutch
- MLR control
- Key latch retraction
- Field selectable function
- Field selectable handing
- Schlage trim compatible
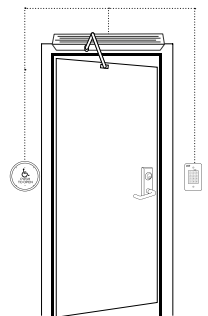
Mortise lock powered by operator
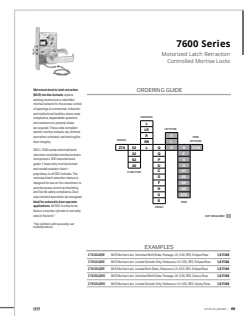MLR mortise lock retracts latch, allowing for door automation

Features & Specs
7600 Datasheet
www.sdcsec.com/7600-datasheet

Part Numbers & Pricing
7600 Pricesheet
www.sdcsec.com/7600-pricesheet

Common Part Numbers

Z7620LQRE   MLR Mortise Lock, Unlocked Both Sides, Passage, LH, 626, REX, Eclipse Rose

Z7652LQRE   MLR Mortise Lock, Locked Outside Only, Failsecure, LH, 626, REX, Eclipse Rose

Z7632LQRE   MLR Mortise Lock, Locked Both Sides, Failsecure, LH, 626, REX, Eclipse Rose

ELECTRIFIED MORTISE LOCKSETS

7700 Series
Motorized Latch Retraction & Solenoid Controlled Mortise Locks

Also in 2018, SDC introduced the 7700 Series with both motorized electric latch retraction and a solenoid for mortise lock control – another industry first and still proprietary to SDC. Ideal for automatic door operator applications, the solenoid controls the inside, outside or both door levers. The MLR and solenoid features operate independently to combine versatile passage functionality with failsafe or failsecure access control while meeting ADA compliance.

7700 series standard features include:

- Heavy duty mortise design
- New or retrofit construction
- Vandal resistant clutch
- MLR and solenoid control
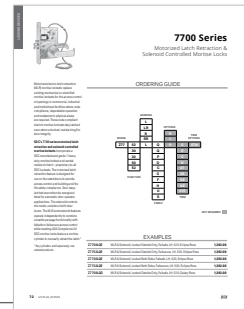- Key latch retraction
- Schlage trim compatible

Motorized Latch Retraction

Solenoid Control
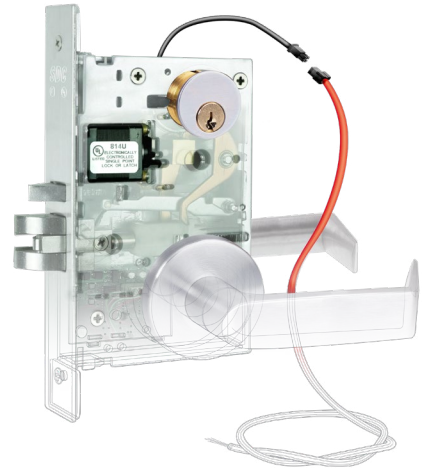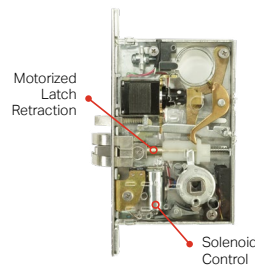
Features & Specs
7700 Datasheet

www.sdcsec.com/7700-datasheet

Part Numbers & Pricing
7700 Pricesheet

www.sdcsec.com/7700-pricesheet

Common Part Numbers

Z7750LQE   MLR & Solenoid, Locked Outside Only, Failsafe, LH, 626, Eclipse Rose

Z7752LQE   MLR & Solenoid, Locked Outside Only, Failsecure, LH, 626, Eclipse Rose

**Z7730LQE**   MLR & Solenoid, Locked Both Sides, Failsafe, LH, 626, Eclipse Rose

ELECTRIFIED MORTISE LOCKSETS

SDC Selectric®

7800PRO Series

Solenoid Controlled Mortise Locks

SDC's mortise locksets replace existing mechanical or electrifed mortise locksets for the access control of openings in commercial, industrial and institutional facilities where code compliance, dependable operation and resistance to physical abuse are required. These code compliant electric mortise locksets stay latched even when unlocked, maintaining fire door integrity and eliminate the need for exposed and vulnerable electric strikes and magnetic locks or request-to-exit devices.
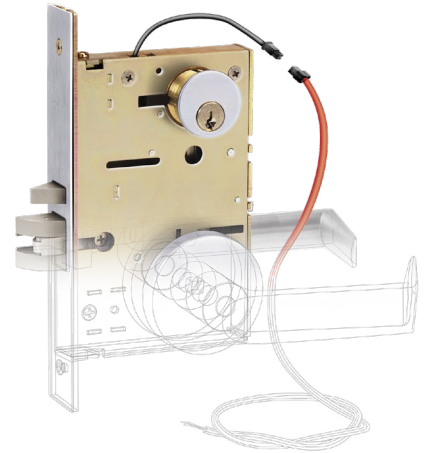
7800PRO series models incorporate a grade 1 heavy duty mortise lockset and vandal resistant clutch – proprietary to all SDC locksets. They replace most brands of mechanical locksets making them fully compatible with new and retrofit applications and provide field selectability of all operational attributes.

Selectric® 7800PRO series standard features include:

- Heavy duty cylindrical design
- New or retrofit construction
- Vandal resistant clutch
- Solenoid control
- Key latch retraction
- Field selectable operation
- Field selectable function
- Field selectable dual voltage
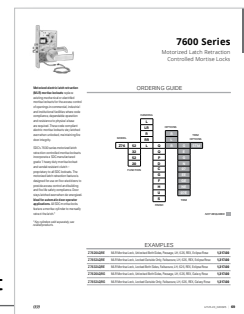- Field reversible handing
- Schlage trim compatible
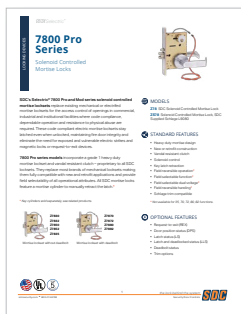
Features & Specs
7800PRO Datasheet
www.sdcsec.com/7800pro-datasheet

Part Numbers & Pricing
7800PRO Pricesheet
www.sdcsec.com/7800pro-pricesheet

Common Part Numbers

Z7850LQE   Locked Outside Only, Failsafe, LH, 626, Eclipse Rose

Z7852LQE   Locked Outside Only, Failsecure, LH, 626, Eclipse Rose

Z7830LQE   Locked Both Sides, Failsafe, LH, 626, Eclipse Rose

Z7835RCQ   Locked Outside and/or Inside, Failsecure Outside and Failsafe Inside, RH, 24VDC, 626

Z7880LCQE   Deadbolt Privacy, Locked Outside Only, Failsafe, LH, 24VDC, 626, Eclipse Rose

SDC Selectric®

7800MOD Series
Solenoid Controlled Mortise Locks Modifications

The 7800MOD series electrifies customer supplied new or existing mechanical brands of mortise locksets. Simply send the brand lockset of your choice to SDC for electrification. Brands compatible for SDC modification include: Schlage, Yale, Falcon, Arrow, Marks, PDQ, Dorma, Corbin Russwin, Sargent, Hager, Best and Cal Royal. Only storeroom function mortise lock chassis can be electrified. A mortise cylinder manually retracts the latch.

Selectric® 7800MOD series standard features include:

- Solenoid control
- Key latch retraction
- Field selectable operation
- Field selectable function
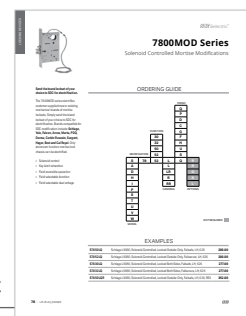- Field selectable dual voltage
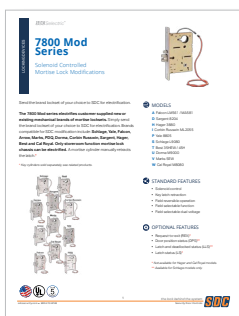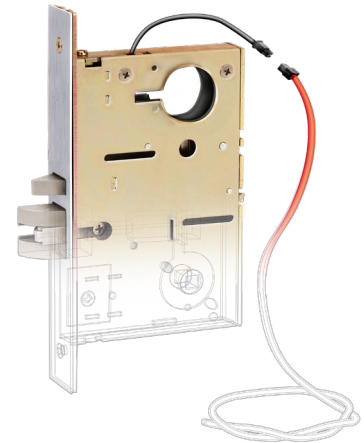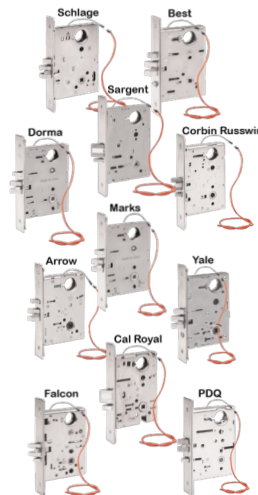
**Features & Specs
7800MOD Datasheet**

www.sdcsec.com/7800mod-datasheet

**Part Numbers & Pricing
7800MOD Pricesheet**

www.sdcsec.com/7800mod-pricesheet

Common Part Numbers

S7850LQ   Schlage L9080, Solenoid Controlled, Locked Outside Only, Failsafe, LH, 626

S7852LQ   Schlage L9080, Solenoid Controlled, Locked Outside Only, Failsecure, LH, 626

S7830LQ   Schlage L9080, Solenoid Controlled, Locked Both Sides, Failsafe, LH, 626

COMMON APPLICATIONS

ACCESS CONTROL SECURITY SOLUTIONS

Proven Commercial Applications

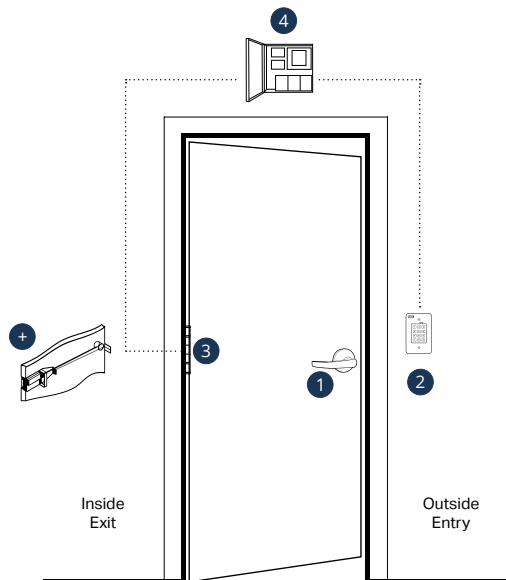*the lock behind the system* SDC Security Door Controls

Access & Egress Security Solutions Brochure

Common electrified cylindrical lockset application solutions can be found on pages 6, 7, 8, 16, 19 and 21.
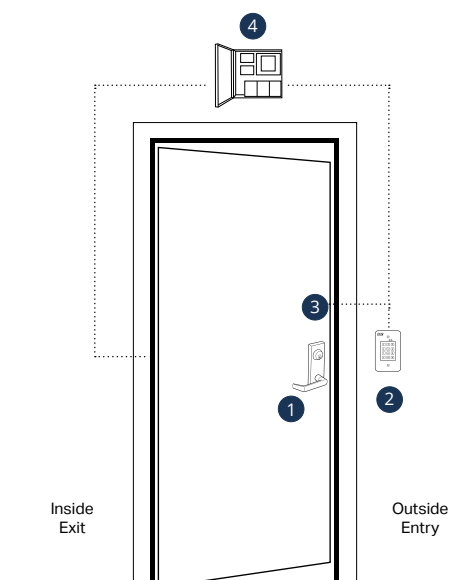

www.sdcsecurity.com/Solutions-Brochure

Electrified Cylindrical Lock Access Control

Inside Exit

Outside Entry

Access & Egress Security Solutions Brochure Page 6

Electrified Mortise Lock Access Control

Inside Exit

Outside Entry

Access & Egress Security Solutions Brochure Page 7

Electrified Mortise Lock Stairwell Access Control

Inside
Exit

Outside
Entry
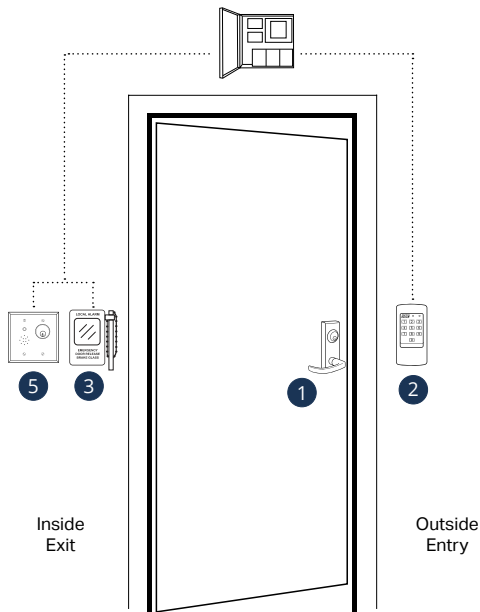
Access & Egress Security Solutions Brochure Page 8

Automated Mortise Lock Access Control

Inside
Exit

Outside
Entry
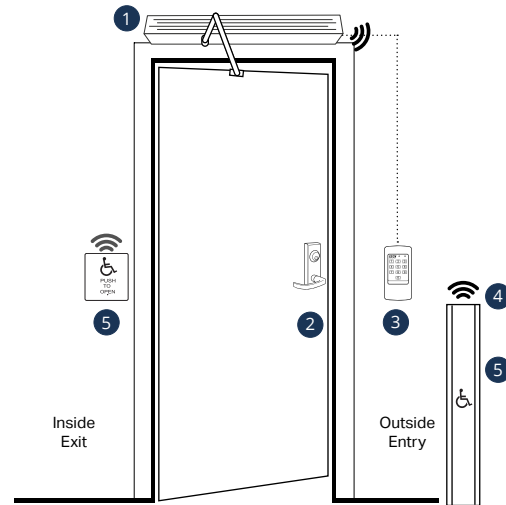
Access & Egress Security Solutions Brochure Page 16

Network Edge Physical Security for Data Rooms

Inside
Exit

Outside
Entry
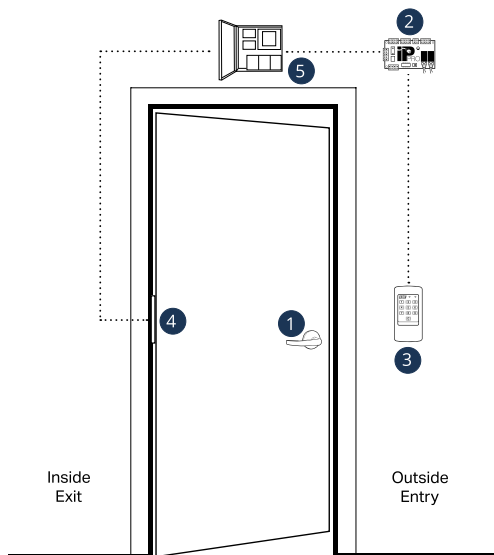
Access & Egress Security Solutions Brochure Page 19

Code Compliant Classroom Lockdown

Inside
Exit

Outside
Entry
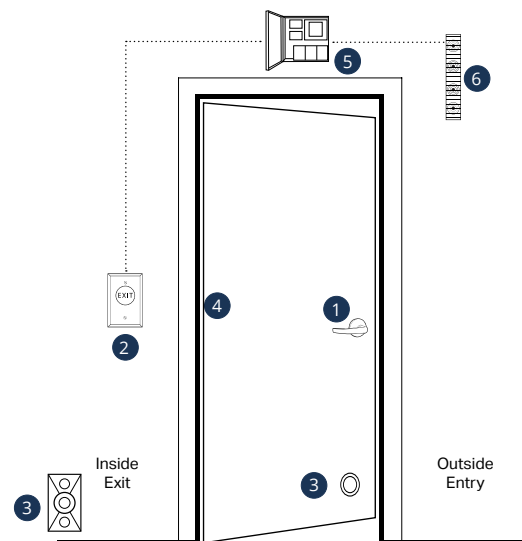
Access & Egress Security Solutions Brochure Page 21

ADDITIONAL RESOURCES

Electrified Locksets Product Category Page

www.sdcsec.com/eLocks

Electrified Cylindrical Locksets White Paper

www.sdcsec.com/whitepapers-eCylindrical

Electrified Mortise Locksets White Paper

www.sdcsec.com/whitepapers-eMortise

HiTower Replacement Guide

www.sdcsec.com/HiTower-replacement

Electrified Locks Overview Video
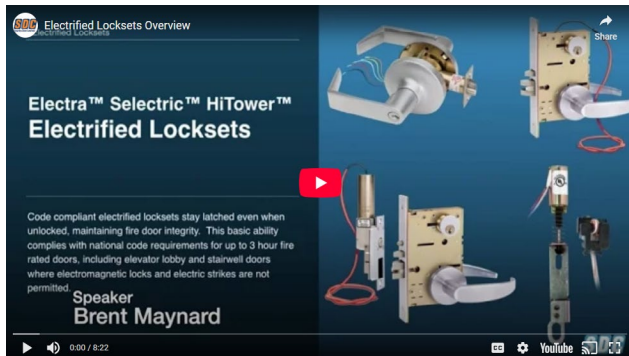
www.sdcsec.com/Electrified-Locksets

The HiTower Advantage Product Overview Video

www.sdcsec.com/HiTower-Advantage

MLR Z7600 Mortise Lockset Video

www.sdcsec.com/MLR-Z7600

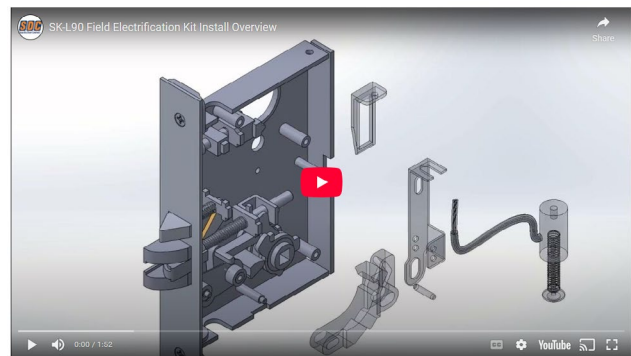## 7800 Selectric Features Demo Video

www.sdcsec.com/7800-demo

ADDITIONAL RESOURCES

7800 Field Reversibility Video

www.sdcsec.com/7800pro-reversibility

SK-L90 Field Electrification Kit Video

www.sdcsec.com/SK-L90-Kit

Complementing our line of electrified locksets is the industry's most comprehensive suite of accessories – for meeting safety, security, and compliance requirements with flexibility and customization not found in other brands. **See related products on any electric strikes product datasheet for applicable accessories.**

KEYPADS & READERS

Keypads and readers are engineered to provide control of a single opening up to 100 doors, while ensuring fire and life safety code compliance.

Emergency Door Releases

Provides a physical method of unlocking an electronic lock in the event of an emergency and may influence the approval of an electric locking system.

POWER TRANSFER DEVICES

Electrified power transfer hinges, loops and mortise devices provide both surface and concealed methods transferring power to exit devices

POWER CONTROLLERS

SDC access control power supplies have been developed specifically to support access controls and electric locking hardware.

LOW ENERGY OPERATORS

Low energy swing door operators are designed for applications requiring ADA compliance, user convenience and touchless solutions

PUSH PLATES & PANELS

Low energy swing door operators are designed for applications requiring ADA compliance, user convenience and touchless solutions.
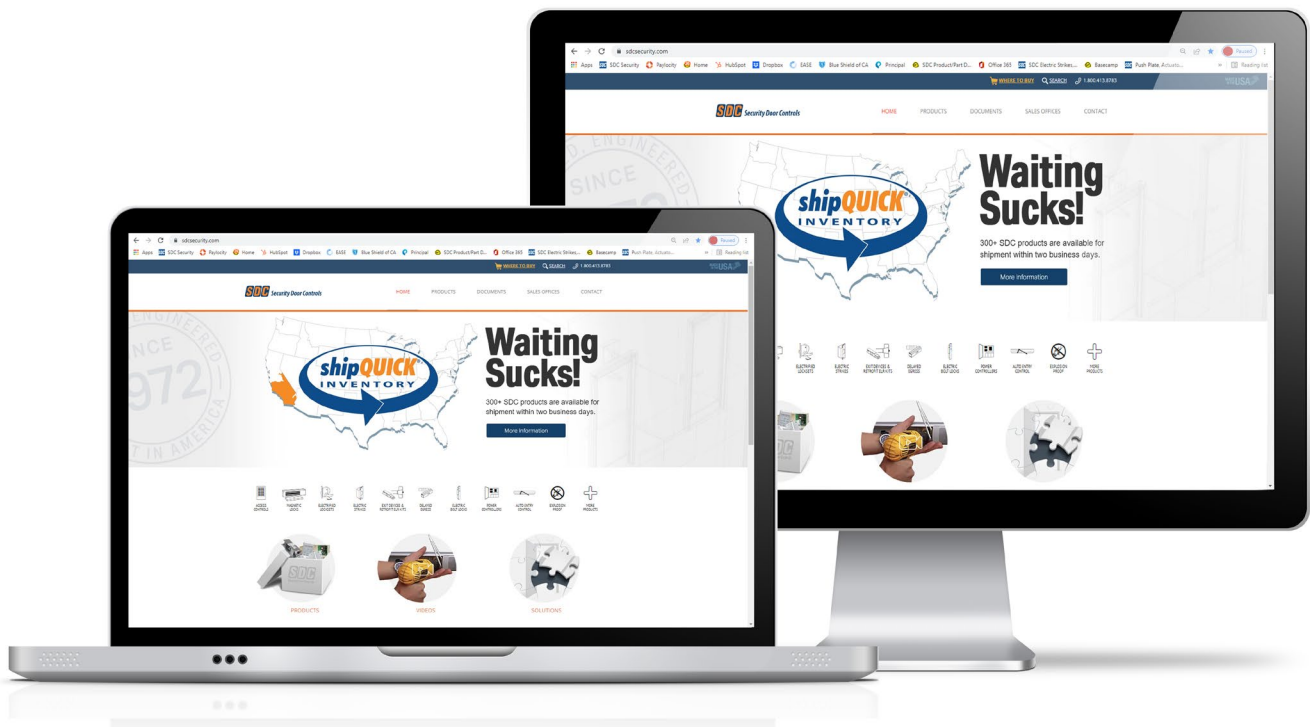
CHECK OUT **SDC ONLINE**
FOR ALL YOUR PROJECT NEEDS

Our fully featured website has all the information, solutions and tools you'll need, including:

- Data Sheets
- Pricesheets
- Solution Flyers
- Cool Tools

- Installation Instructions
- Comparison Charts
- UL Listings
- 3 Part Specs

- Videos
- Document Library
- Image Library
- And More!

www.sdcsecurity.com

Need Help Building Your Solution?

Use **DoorSnap**™ in the free **SDC App** for your door retrofit projects

SDC Solution Experts Will Craft Personalized Solutions For You!

1. Open the SDC App and select DoorSnap™

2. Take a photos of your door opening

3. Submit photos of your door opening

4. Receive a complete access and egress electrified solution

Download the FREE SDCSecurity App now!

Our award-winning app includes labor-saving DoorSnap™ functionality. SDC will recommend a cost effective solution with product information links to retrofit the opening for access & egress control locking hardware.

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GET IT ON Google Play

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SINCE

1972