

**OBSERO**

highly intelligent • unbeatable resilience

**Smart IP Enabled  
Detention  
Locking Products**

**The next generation of Detention Access Control**



The Coastal Detention Holdings, LLC, group of companies (American Steel Products, Trussbilt, Southern Folger Detention Equipment Company), comprises over 500,000 SF of manufacturing capacity, and a 300-year legacy of reputation and combined expertise in the justice/corrections industry.

The integration of these companies offers the complete portfolio of detention equipment products including, the proprietary TrussWall security steel wall panel system, Coastal Detention Modular Cells, Security Ceiling and Decking systems,

detention hollow metal doors, frames, and windows, Detention-grade furniture, and the premier Southern Folger line of detention locks, sliding door devices, next generation detention smart locking technology, and hardware.

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Georgia ♦ Florida ♦ South Dakota ♦ Minnesota ♦ Texas

# Contents

[CHECK CONTENTS](#)

## 02 Southern Folger Detention Equipment Company

## 02 The OBSERO™ Smart Lock

## 05 Swing Door Locks - Electro-Mechanical

- 08 S1051M - Motor Driven Smart Lock
- 10 S10120AM - Motor Driven Smart Lock
- 12 S10300M - Motor Operated Electro-Mechanical Deadlatch
- 14 S10600 - Solenoid Driven Smart Lock
- 17 Swing Door Locks Ordering Procedure

## 19 Sliding Systems - Electro-Mechanical Devices

- 22 S4110L - Electric Locking System
- 24 S3150LX.b - Electric Locking System
- 26 S3165LX.b - Electric Locking System
- 28 Sliding Devices - Ordering Procedure

## 29 Accessories

- 30 S204E - Electric Power Transfer Hinge
- 31 200MRS TB - Magnetic Switch

# Southern Folger Detention Equipment Company

↘ The OBSERO™ SMART LOCK will:

- Improve the overall safety and security at a facility
- Reduce the total construction cost of a facility
- Reduce the cost of maintenance for a facility

**Southern Folger Detention Equipment Company is synonymous with excellence and quality in product design, materials, and craftsmanship, as well as facility construction, service, repair, and retrofit.**

Forged on the foundation of the two pioneer preeminent detention equipment manufacturers, Southern Steel founded in 1897, and Folger Adam established in 1905, Southern Folger equipment and workmanship can be found in thousands of facilities around the world.

Traditionally, the detention industry has lacked innovation and over the past 40 years, there has been little to no significant technological advances with locking systems.

The OBSERO™ brand of Smart Locking products combines the reliability of our existing products with the utilization of high-end technology to deliver the industry's first Smart Detention Locking products. This affords facilities the confidence that the new Smart Lock has undergone the same stringent testing and standards as the existing Southern Folger products that have been utilized and trusted for multiple decades in the justice/ corrections industry.

## The OBSERO™ Smart Lock U.S. Patent No. 9,754,433

Detention facilities today represent the harshest and most challenging environments with strained operational resources. Inmates abuse and damage facility infrastructure and more specifically, locking systems. Inmates, by introducing contraband and other available materials into the lock strike pocket attempt to compromise lock bolt engagement rendering the locking system unsecured. This can go virtually undetected by correctional guards creating a dangerous life-safety issue.



The OBSERO™ product line provides the **highest level of security** available in the industry with its patented real-time **Latch Bolt Position Indication Sensor**, utilizing **Hall Effect Technology** which monitors the **precise position of the lock bolt** at any given time. This sensor will alert correctional officers once any material has been introduced in the lock strike pocket to alert them that the lock bolt is not fully engaged and operational. This gives facilities 100% guarantee that

the door locking system has not been manipulated or tampered with resulting in an increased level of security and safety.

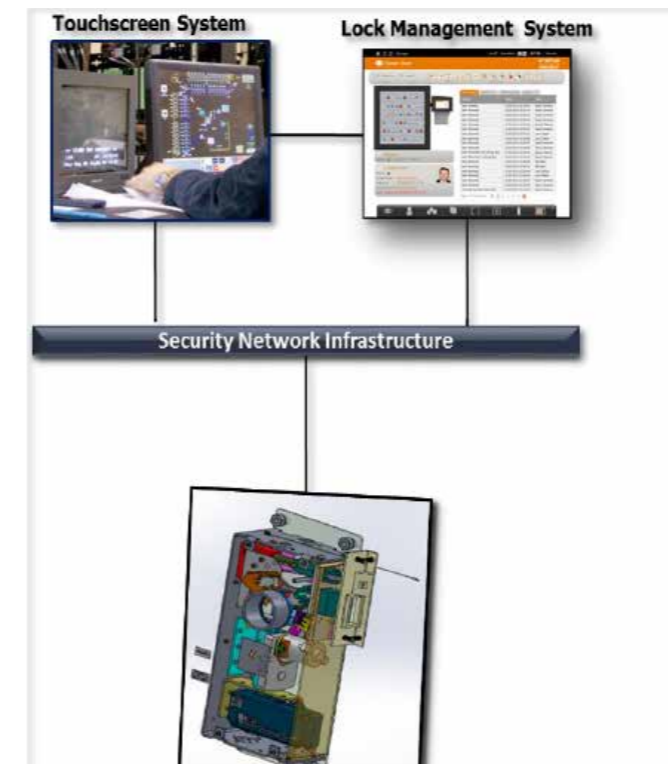
Currently in detention facilities, the infrastructure needed to control a lock includes:

- 6 wires per lock for power
- Industrial computers (PLCs) for logic control
- Electromagnetic relays to communicate with the PLCs.

The Smart Lock utilizes **Power over Ethernet (PoE)** technology as its standard means of power and data communication eliminating the need for multiple wires to each lock. The new Smart Lock utilizes just a **single data cable** as opposed to 6 cables needed on the current product. **This significantly reduces the hardware and software needed for a system, by up to 50%.**

The PoE connectivity will eliminate the need for industrial computers (PLCs) and electromagnetic relays that are currently used to power and control a lock. This will decrease the overall voltage needed to power a system, by up to **30% which provides an environmental benefit and cost savings** to the overall construction and operation of the facility.

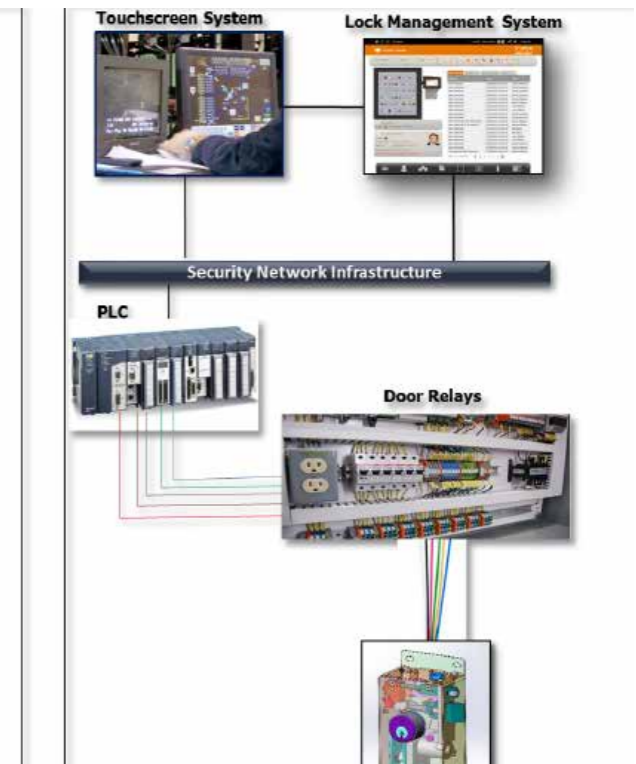
### OBSERO™ Smart Locking System



Service and maintenance is an ongoing challenge for detention facilities today. Due to limited resources, facilities sparingly are able to perform preventative maintenance on their locks which can lead to premature product failure. One of the critical components of the lock is the motor. The Smart Lock has a **temperature sensor** that continually monitors the temperature of the motor and will **self-diagnose and alert maintenance staff when the motor demonstrates a spike in temperature**, which is a precursor to motor and lock failure.

The current lock can only generate **2 to 3 alarms** that provides limited monitored feedback of the condition of the lock. The new Smart Lock has the capability of generating over **30 alarms** based on the activities and condition of the lock. This feature makes **lock maintenance a proactive automated process** reducing unsafe physical exposure of service personnel

### Existing Locking System



in inmate occupied areas, while continuously providing an audit trail for every activity at the lock enhancing facility operation and security.

The new Smart Lock is developed on **Open Network Video Interface Forum (ONVIF)**, which is the same accepted standard technology utilized by digital camera systems currently. **The Smart Lock product line with its Bluetooth technology**, makes integration capabilities seamless and intuitive with complementary systems, such as digital cameras, access control, duress alarm products, digital intercoms, inmate tracking, and cell phone detection.

The OBSERO™ brand of Smart Locking Products represents the next generation of Detention Locking System Technology, by enhancing operational efficiencies, safety and security, and reducing overall construction and facility maintenance costs.

# Swing Door Locks Electro-Mechanical

# Swing Door Locks

## Standard Features:

- 24VC
- PoE+
- Bolt Position Indication (BPI). Active bolt position hall effect sensor
- Wired for separate integrated 200MRS Triple Bias Door position switch to achieve the “Secure Equation”
- Bluetooth - selectable
- Historian

## Applicable Standards:

- American Society Testing Materials [ASTM] - Detention Lock Standard ASTM-1577 Grade 1 -Clauses 1577 6.2 – 6.8
- UL 1034 Burglary Resistance
- UL 3 Hour Fire Testing (not applicable for half cycle function)
- UL 294 A/B for Access Control Systems
- FCC Rules, 47 CFR Part 15 Subparts B & C for EMC & RT
- FIPS 140-2 Security Requirements for Cryptographic Modules
- ONVIF Profile C

## Glossary / Abbreviations:

<b>BHC</b>	Builders Hardware Cylinder
<b>BPI</b>	Bolt Position Indication
<b>D</b>	Half Cycle Function
<b>E</b>	Fail Secure
<b>EP</b>	Fail safe
<b>K</b>	Standard Knob
<b>KCE</b>	Key Cylinder Extender
<b>KOM</b>	Key Override Monitor
<b>L</b>	Lever
<b>LEK</b>	Local Electric Key Switch
<b>NL</b>	No Latch Back
<b>PoE+</b>	Power over Internet Plus
<b>SK</b>	Safety Knob
<b>UL</b>	Underwriters Laboratories

## Lock Function Descriptions:

### Half-Cycle Holdback (Specify “D”):

Latch bolt is retracted electrically when switch is in the open position. When remote switch is returned to locked position, latch bolt will extend when door is open approximately 2” (50mm). Note UL Fire Listing is not available with this function.

### No Latchback (Specify “NL”):

Allows latch bolt to extend without opening door. Normally used in conjunction with “D” function.

### Knob Function (Specify “K”):

Bolt retracted by knob on opposite side of mogul cylinder only.

### Local Electric Keyswitch (Specify “LEK”):

Day key provides local electric operation and may be disabled from the control panel. Master key provides both electric operation and manual key override. Function can also be used for inmate key function, in conjunction with a push button inside the cell.

### Key Cylinder Extender (Specify “KCE” and size):

An option in place of providing a recess in the frame when keying is required to the stop side of the opening. Available in 3” (75mm) or 5” (125mm). 3” (75mm) for openings up to 6” (150mm) frames and 5” (125mm) for openings up to 8” (200mm) frames. Special lengths available upon request. Provide dimension “A” (overall frame width) and dimension “B” (edge of frame to center of lock bolt).

### Key Override Monitor (Specify “KOM”):

The key override switch provides a signal to the Control panel that a mechanical key has been used to retract the latch bolt (note: KOM is not available in conjunction with KCE).

# Motor Driven Smart Lock

## Application

For Maximum security swinging doors that are to be unlocked from a remote location. Jamb mounted. Door position indicator switch, door closer and heavy duty door pull are recommended.

## Function

**Electronic** - Remote switch activates a motor which retracts the latchbolt. Latchbolt remains retracted until door is opened approximately 2" (50mm), then it releases, automatically latches and deadlocks when the door is closed.

**Mechanical** - Latchbolt is retracted by a paracentric key at the door and remains retracted until door is opened approximately 2" (50mm), then it releases, automatically latches and deadlocks when the door is closed.

Automatic deadlatch feature is suspended when paracentric key is rotated to mechanical key hold-back position. Normal function is resumed when key is returned to deadlock position. For positive tamper proof resistant signaling for a closed & dead locked door a 200MRS TB door position switch is required.

## Standard Features

- Multi-Function Programmable Lock
- Fail Secure
- Power over Ethernet (PoE+)
- Patented Bolt Position Indication (BPI) Sensor (U.S. Pat. No. 9,754,433)
- Temperature Sensor
- Dead Motor Indication Switch
- Lock Operation Historian
- Integrated Bluetooth / Internal Antenna

## Selectable Electronic Features (factory set):

- Half Cycle Holdback (D)

## Optional Mechanical Features:

- No Latch Back (NL)

## Includes:

- Deadlock Roller Ramp Bolt Roller Ramp
- Mounting Fasteners
- Paracentric Cylinder / 6 Tumbler
- RJ45 Connector
- High Torque Motor
- Wire harness / connector for integrated 200MRS TB DPS

## Lock Testing:

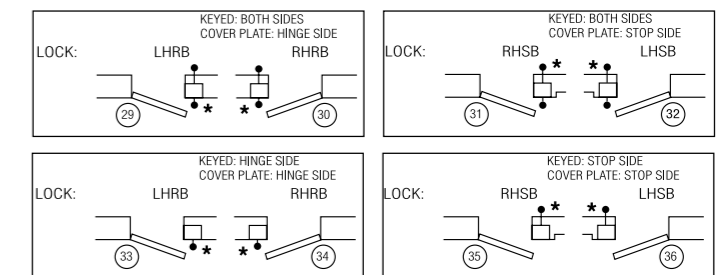
- ASTM 1577 6.2 – 6.8
- UL 1034
- UL Listed for 3 Hour Fire Doors

## Door Preparation

### Frame Preparation

NOTE: Drawing for illustration only. Reference template for specific information.

**Swing Chart:** Specify circled swing number when ordering.



\* Indicates lock mounting/access plate side.

## Technical Data

<b>Standard Finish</b>	Zinc plated
<b>Cover</b>	7ga. 3/16" (4.55mm) steel plate
<b>Case</b>	7ga. 3/16" (4.55mm) steel plate
<b>Latchbolt</b>	Cold rolled, steel
<b>Deadlock Actuator</b>	Stainless steel
<b>Paracentric Cylinder</b>	Silicon bronze / copper alloy
<b>Tumblers</b>	Spring tempered brass. Tumblers actuated by phosphor bronze springs, six tumblers per lock
<b>Electrical</b>	24 VDC 0.28AMP Running / 0.80 AMP Stalled
<b>Lock Size</b>	9"(w) x 3.12"(d) x 16.88"(h) (229 x 79 x 429mm)
<b>Lock Weight</b>	50lbs (23kg)
<b>Latchbolt Size</b>	2"(h) x 3/4"(tk) (50 x 19mm)
<b>Latchbolt Throw</b>	1" (25mm)

↘ S1051M-1: Keyed One Side  
S1051M-2: Keyed Two Sides

# Motor Driven Smart Lock



## Application

Medium and maximum security swinging doors that are to be unlocked from a remote location. Jamb mounted. Door position indicator switch, door closer and heavy duty door pull are recommended.

## Function

**Electronic** - Remote signal activates a motor which retracts the latchbolt. Latchbolt remains retracted until door is opened approximately 2" (50mm), then it releases, automatically latches and deadlocks when the door is closed.

**Mechanical** - Latchbolt is retracted with a mogul key at the door, and remains retracted until door is opened approximately 2" (50mm), then it releases and automatically latches and deadlocks when the door is closed. Automatic deadlatch feature is suspended when paracentric key is rotated to mechanical key hold-back position.

Normal function is resumed when key is returned to deadlock position. For positive tamper proof resistant signaling for a closed & dead locked door a 200MRS TB door position switch is required.

## Standard Features

- Multi-Function Programmable Lock
- Fail Secure
- Mechanical Latch Back
- Power over Ethernet (PoE+)
- Patented Bolt Position Indication (BPI Sensor (U.S. Pat. No. 9,754,433))
- Motor Temperature Sensor
- Dead Lock Indication Switch
- Lock Operation Historian
- Integrated Bluetooth / Internal Antenna
- Wire harness / connector for integrated 200MRS TB DPS

## Selectable Electronic Features (factory set):

- Half Cycle Holdback (D)
- Local Electric Key Switch (LEK)
- Key Override Monitor (KOM)

## Optional Mechanical Features:

- No Latch Back (NL)
- Knob Function (K)
- Key Cylinder Extender (KCE) (not available with KOM function, frame will require a recess)

## Includes:

- Strike with Security Fasteners
- Mounting Fasteners
- Mogul Cylinder (US26D)
- Plug Connector

## Lock Testing:

- ASTM 1577 6.2 - 6.8
- UL 1034
- UL 437
- UL Listed for 3 Hour Fire Doors

## Door Preparation

### Frame Preparation

NOTE: Drawing for illustration only. Reference template for specific information.

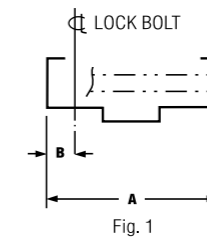
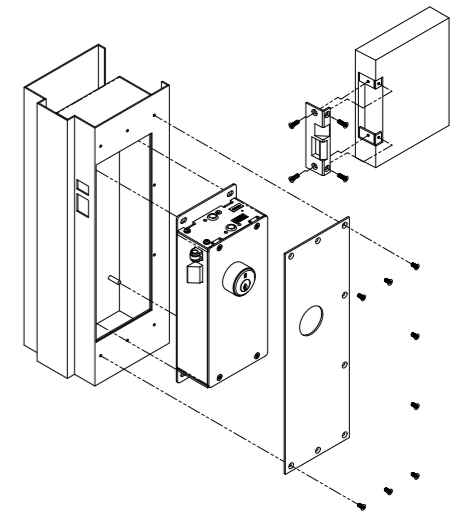
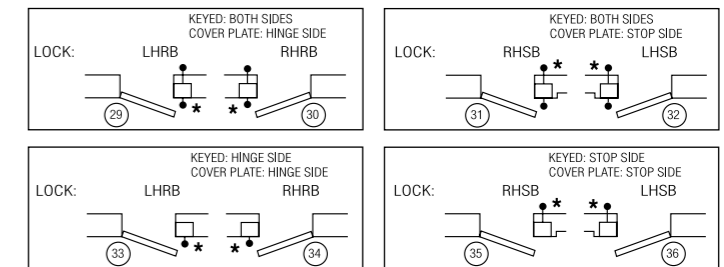


Fig. 1



**Swing Chart:** Specify circled swing number when ordering.



\* Indicates lock mounting/access plate side.

## Technical Data

<b>Standard Finish</b>	Zinc plated
<b>Cover</b>	10 gauge steel plate
<b>Case</b>	10 gauge steel plate
<b>Strike</b>	Stainless steel
<b>Latchbolt</b>	Stainless steel
<b>Deadlock Actuator</b>	Stainless steel
<b>Mogul Cylinder</b>	US26D
<b>Mogul Keys</b>	Nickel Silver
<b>Pin Tumblers</b>	Combination nickel silver and stainless steel, 6 tumblers per lock
<b>Electrical</b>	24 VDC 0.32 AMP Running / 0.8 AMP Stalled
<b>Lock Size</b>	15½"(h) x 6¾"(w) x 3½"(d) (394 x 171 x 89mm)
<b>Lock Weight</b>	20lb (9kg)
<b>Latch Bolt Size</b>	1½" x ¾" (45 x 19mm)
<b>Latch Bolt Throw</b>	1" (25mm)

➔ S10120AM-1: Keyed One Side  
S10120AM-2: Keyed Both Sides

# Motor Operated Electro-Mechanical Deadlatch



## Application

Minimum and medium security swinging doors that are to be unlocked from a remote location. Jamb mounted. Door position indicator switch, door closer and heavy duty door pull are recommended.

## Function

**Electronic** - Remote switch activates a motor which retracts the latchbolt. Latchbolt remains retracted until door is opened approximately 2" (50mm), then it releases, automatically latches and deadlocks when the door is closed.

**Mechanical** - Latchbolt is retracted with a builder's hardware key at the door, and remains retracted until door is opened approximately 2" (50mm), then it releases and automatically latches and deadlocks when the door is closed.

For positive tamper proof resistant signaling for a closed & dead locked door a 200MRS TB door position switch is required.

## Standard Features

- Multi-Function Programmable Lock
- Fail Secure
- Mechanical Latch Back
- Power over Ethernet (PoE+)
- Patented Bolt Position Indication (BPI) Sensor (U.S. Pat. No. 9,754,433)
- Motor Temperature Sensor
- Dead Lock Indication Switch
- Lock Operation Historian
- Integrated Bluetooth / Internal Antenna
- Wire harness / connector for integrated 200MRS TB DPS

## Selectable Electronic Features (factory set):

- Half Cycle Holdback (D)
- Local Electric Key Switch (LEK)
- Key Override Monitor (KOM) (1 side only)

## Optional Mechanical Features:

- No Latch Back (NL)
- Key Cylinder Extender (KCE) (not available with KOM function. Frame will require a recess)

## Includes:

- Strike with Security Fasteners
- Face Plate with Security Fasteners
- Mounting Fasteners
- Builders Hardware Cylinder (US26D) (BHC) 1 5/32" (29.4mm) with Standard Yale type cam or equal
- RJ45 Connector
- High Torque Motor

## Lock Testing:

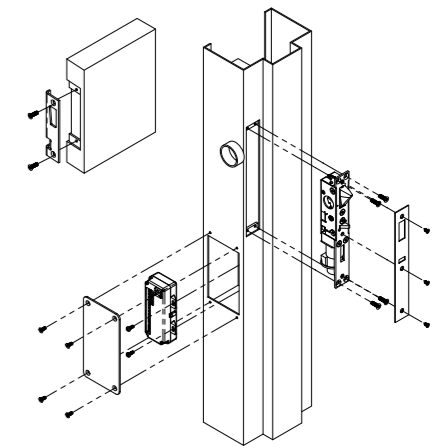
- ASTM 1577 6.2 - 6.8
- UL 1034
- UL 437
- UL Listed for 3 Hour Fire Doors

Note 1. 1 11/16" (42.9mm) O.D x 1/8" (3mm) cold drawn tubes furnished by Door / Frame Manufacturer

## Door Preparation

1-11/16" O.D. x 1/8" wall cold drawn tubes are required.

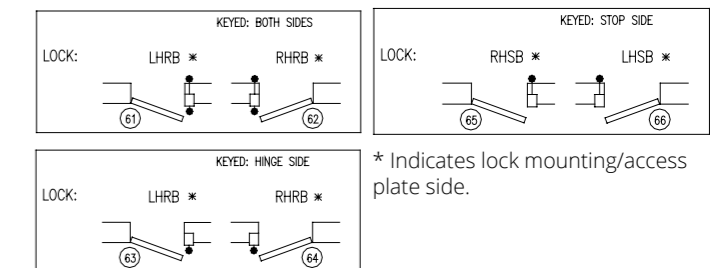
See Note 1



## Frame Preparation

NOTE: Drawing for illustration only. Reference template for specific information.

**Swing Chart:** Specify circled swing number when ordering.



\* Indicates lock mounting/access plate side.

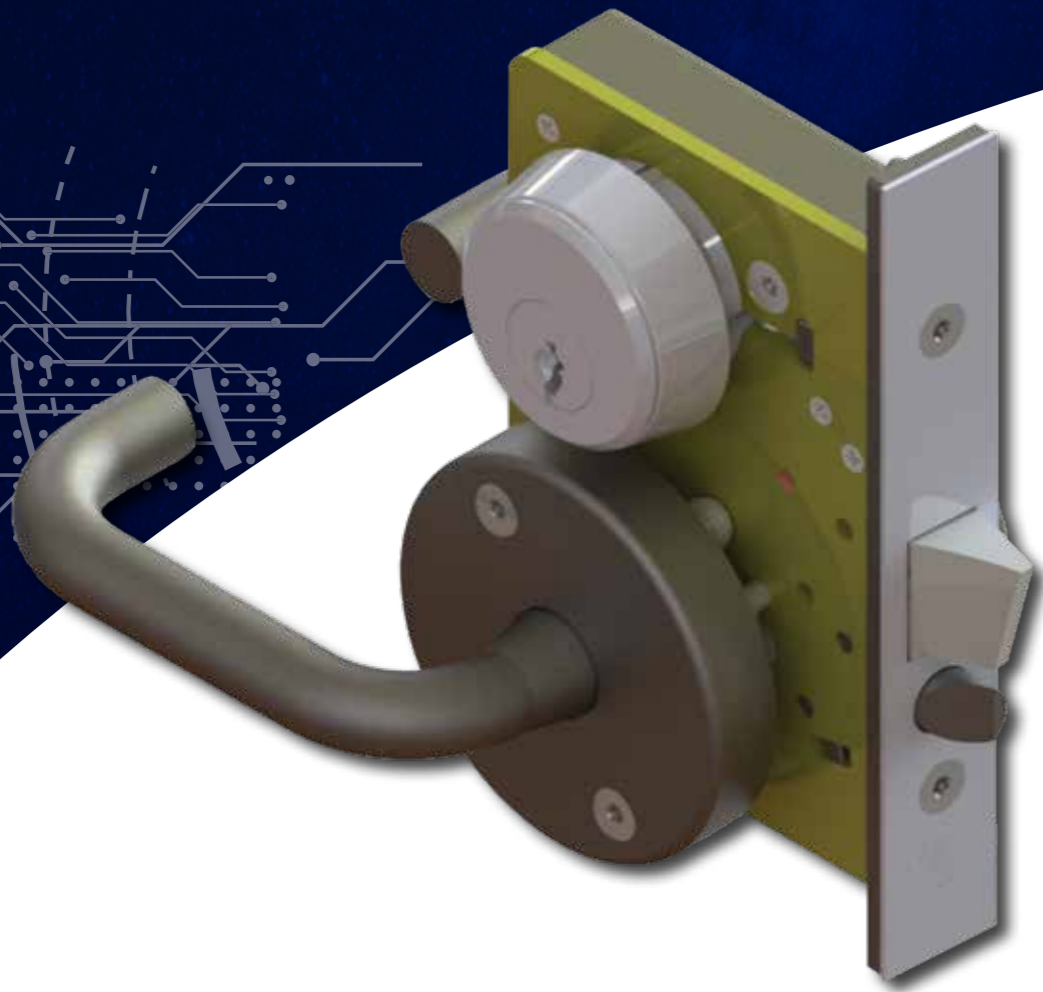
## Technical Data

<b>Standard Finish</b>	US32D
<b>Lock Body</b>	Stainless steel
<b>Face Plate</b>	Stainless steel
<b>Latchbolt</b>	Stainless steel
<b>Deadlock Actuator</b>	Stainless steel
<b>Electrical</b>	24 VDC (0.22 AMPS Running / 0.80 AMPS Stalled)
<b>Lock Size</b>	10-5/8"(h) x 1-1/2"(w) x 1-3/4"(d) (270 x 40 x 45mm)
<b>Lock Weight</b>	3.6lbs (2kg)
<b>Latchbolt Size</b>	1-5/8"(h) x 5/8"(tk) (41 x 16mm)
<b>Latchbolt Throw</b>	3/4" (19mm)
<b>Builder's Cylinder</b>	1-5/32" (29mm) diameter with standard Yale cam or equal
<b>Module Size</b>	5 1/2" x 3" x 1.625" (140 x 76 x 41mm) - hangs below lock in frame

➔ S10300M-1: Keyed One Side  
S10300M-2: Keyed Both Sides



# Solenoid Driven Smart Lock



## Application

Designed for minimum and medium security areas where remote electric or local manual control of lever is desired. Door position switch and door closer are recommended. S204E power transfer hinge is required.

A variety of functions are available to meet job requirements. See function chart on page 16.

For positive tamper proof resistant signaling for a closed & dead locked door a 200MRS TB door position switch is required.

## Function

**10600E Fail Secure** - Lever unlocks when power is applied.

## Standard Features

- Obsero Control Module
- Fail Secure (E - Lever is locked when power is NOT applied) or Fail Safe (EP - Lever is lock when power IS applied)
- Power over Ethernet (PoE+)
- Patented Bolt Position Indication (BPI) Sensor (U.S. Pat. No. 9,754,433)
- Lock Temperature Sensor
- Lock Operation Historian
- Integrated Bluetooth / Internal Antenna

## Includes:

- 500B Strike with Security Fasteners
- Lever Handles
- Face Plate with Security Fasteners
- High Security Rose with Security Fasteners
- Mounting Fasteners
- Finish US32D
- Mogul Cylinder (US26D)
- RJ45 Connector
- Wire harness / connector for integrated 200MRS TB DPS

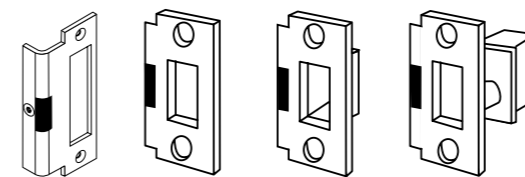
## Optional Features:

- Builders Hardware Cylinder(s) - BHC
- Optional Mechanical Features
- Strike Options - 500B, 500C, 500CL with Security Fasteners

## Lock Testing:

- ASTM 1577 6.2 - 6.8
- UL 1034
- UL 437
- UL Listed for 3 Hour Fire Doors

## Bolt Strikes:

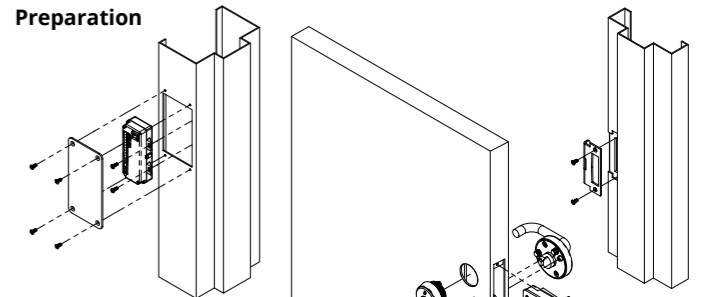


500B - View 1 & 2

500C

500CL

## Frame Preparation

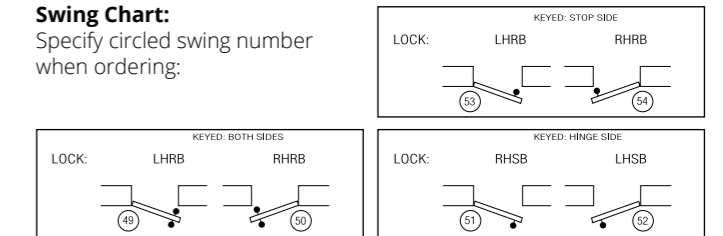


## Door Preparation:

Note: drawing for illustration only. Reference template for specific information.

## Swing Chart:

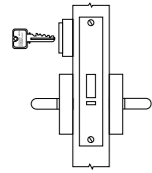
Specify circled swing number when ordering:



## Technical Data

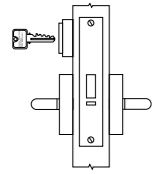
<b>Standard Finish</b>	US32D
<b>Cover</b>	7 gauge steel
<b>Case</b>	7 gauge steel
<b>Strike</b>	10 gauge stainless steel only
<b>Face Plate</b>	16 gauge stainless steel
<b>Latchbolt</b>	Cast stainless steel
<b>Deadlock Actuator</b>	Stainless steel
<b>Lever Handles</b>	Stainless steel
<b>Key Cylinder</b>	Mogul or builder's
<b>Lock Weight</b>	20lbs (9kg)
<b>Latchbolt Throw</b>	3/4" (19mm)
<b>Electric</b>	24 VDC, 0.3 AMP
<b>Fits Ansi Door Prep</b>	A115.1
<b>Module Size</b>	5 1/2" x 3" x 1.625" (140 x 76 x 41mm) - placed in frame

## S10600 Solenoid Driven Smart Lock Functions



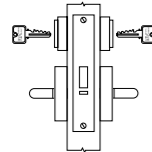
### S10601 Lockset

- Latchbolt operated by lever either side, except when both are locked out
- Key outside operates latchbolt when both levers are locked out
- Deadlock actuator
- S10601E: Both levers are locked, except when power is applied
- S10601EP: Both levers are unlocked, except when power is applied



### S10603 Lockset

- Latchbolt operated by lever both sides, except when outside lever is locked out
- Key outside operates latchbolt when outside lever is locked out
- Lever inside always active
- Deadlock actuator
- 10603E: Outside lever is locked, except when power is applied
- 10603EP: Outside lever is unlocked, except when power is applied



### S10605 Lockset

- Latchbolt operated by lever both sides, except when locked out
- Key both sides operates latchbolt when both levers are locked out
- Deadlock actuator
- 10605E: Both levers are locked, except when power is applied
- 10605EP: Both levers are unlocked, except when power is applied

## Swing Door Locks

# Ordering Procedure

Lock Model	Functions Available	Keyed 1 or 2 Sides	Key Cylinder Extender	Strike Type	Voltage	Swing #	Nomenclature Examples
S1051M	D, NL	1 or 2	N/A	N/A	24V	Refer Handing Chart	S1051M_D_1_24V_#33 LOCK
S10120M	D, NL, LEK, KOM, NL, K	1 or 2	KCE	N/A	24V	Refer Handing Chart	S10120M_D_NL_2_KCE_24V_#29 LOCK
S10300M	D, NL, LEK, KOM(1), NL	1 or 2	KCE	N/A	24V	Refer Handing Chart	S10300M_LEK_1_24V_#63 LOCK
S10600E	Select Lock Function	Refer Lock Function Chart	N/A	500B, 500C, 500CL	24V	Refer Handing Chart	S10601E_L_500C_24V_#51 LOCK

# Sliding Systems Electro-Mechanical Devices

# Sliding Devices

## IP SMART DEVICES

### Standard Features:

- 110v / 240v
- Bluetooth - Selectable
- Historian

### Applicable Standards:

- American Society Testing Materials [ASTM] - Detention Lock Standard ASTM-1643 [Sliding Doors] Clauses 1643 6.2 – 6.9
- UL 3 Hour Fire Testing (for rated devices)
- UL 294 A/B for Access Control Systems
- FCC Rules, 47 CFR Part 15 Subparts B & C for EMC & RT
- FIPS 140-2 Security Requirements for Cryptographic Modules.
- ONVIF Profile C

### Glossary / Abbreviations

<b>D</b>	Electrical half cycle
<b>G</b>	Galvanized
<b>HC</b>	Hinged Cover
<b>MRC</b>	Manual Release Cabinet
<b>NC</b>	Normally Closed
<b>NLO</b>	No Lock Open (Slider)
<b>NO</b>	Normally Open
<b>P</b>	Pilaster with Paracentric Key Override
<b>PK</b>	Pilaster with Paracentric Key Switch
<b>RP</b>	Remote Panel
<b>UL</b>	Underwriters Laboratory
<b>WC</b>	Wired Control Cable

### Lock Function Descriptions

#### Pilaster Release:

Hip-high paracentric keyed release mounted in a full height pilaster adjacent to the receiving jamb. (Specify P-1 or P-2).

#### Electric Key Switch:

Paracentric or mogul keyed local electric control switch mounted below mechanical release in pilaster. (Specify PK-1 or PK-2 / PKM-1 or PKM-2).

#### Hot Dip Galvanized Finish (specify "G"):

Available for external applications with lift-off cover panel only.

#### Emergency Gang Release - Manual Release Cabinet:

In an emergency, all doors in a cell line may be simultaneously unlocked from a manual release cabinet (MRC) at the end of the cell line. While a emergency release mode, doors will no relock in any position. (4110L, 3150LX.b).

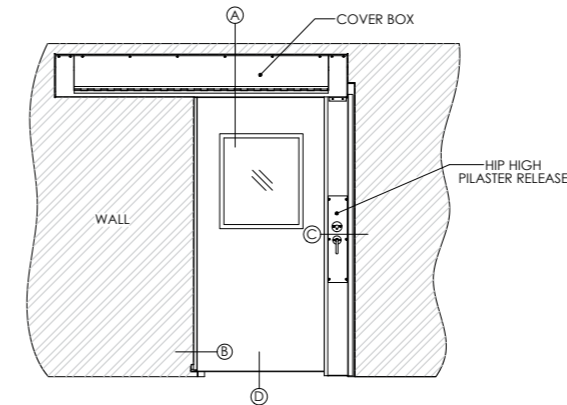
#### Remote Panel Lock System (specify "RP"):

Remote panel option is available with lift off cover only. Not available with standard hinged cover. Example: 3150LX.bRP. Factory wired control cable specify 3150LX.bWC. Use in conjunction with a Manual Release cabinet.

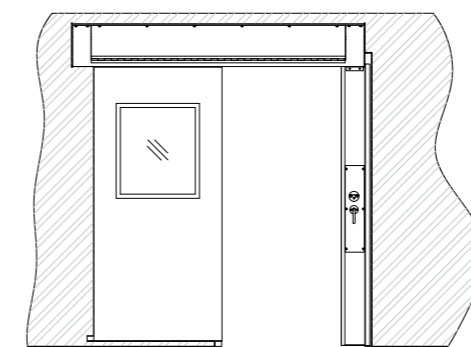
#### Electric Half Cycle (specify "D"):

Door will not lock in any position until it receives relock signal. This function requires the use of a three position switch.

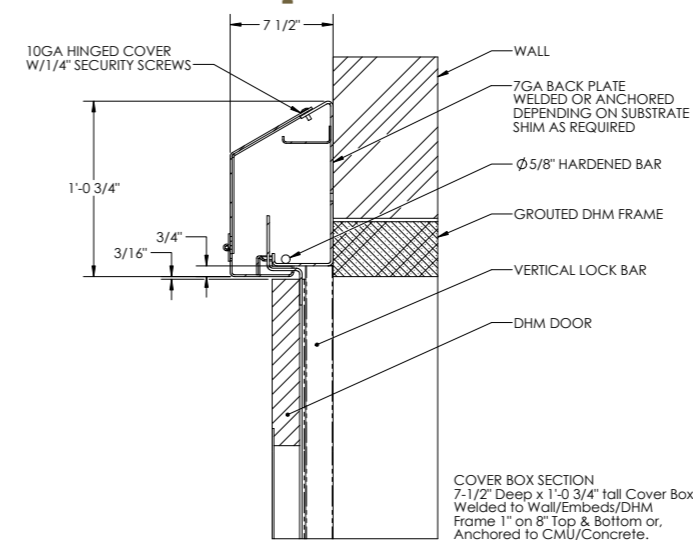
### Door In Closed Position



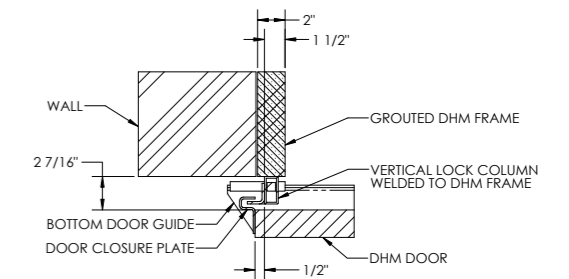
### Door In Open Position



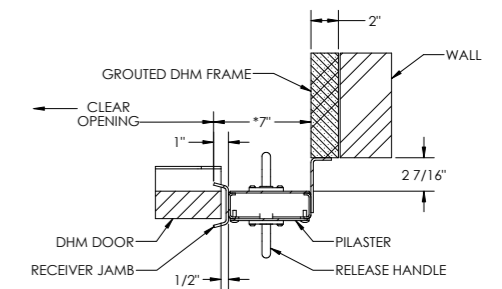
### Section A - Sloped Box



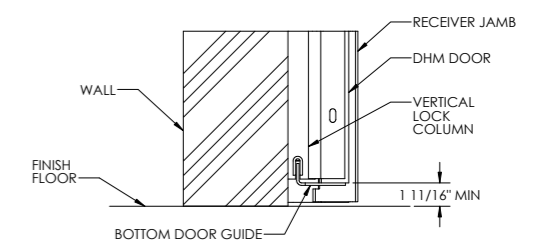
### Section B - Vertical Lock Column



### Section C - Pilaster P-2



### Section D - Bottom Door Guide



# Electric Locking System



## Application

For use where remote electric unlocking of groups of sliding doors is required, but door movement is by hand at the door.

This product also provides the option of emergency mechanical unlocking from a control cabinet at the head of the door line.

Doors are locked at top and bottom in both the open and closed positions by means of a concealed vertical lock bar at the rear jamb of each door. The vertical lock bar is deadlocked at a third locking point inside the horizontal cover box above the door. Standard clear door opening widths available are 2'4" to 3'2" (711 to 966mm).

## Function

**Electric** - Individual switches located on a remote control panel operate an electric motor housed in the horizontal cover box over each door, raising the vertical lock bar and unlocking the door. Upon unlocking, the door springs open a few inches. All door movement is by hand at the door, which automatically snap/ deadlocks when moved to the fully closed or fully open position. Individual lamp indicators on the control panel show locked/unlocked condition. A single switch can provide group unlocking.

**Mechanical** - In the absence of electrical power, doors may be individually unlocked with a manual release tool. Door movement is by hand and door will relock in either fully open or closed position.

## Standard Features

- Pop Open - Movement by Hand
- Obsero control module
- Bottom door guide
- Door hanger
- Manual release in cover box
- Sloped-front cover box
- Hinged cover panel for maintenance access
- Vertical lock bar assembly
- Lock Open Position
- Integrated Bluetooth / Internal Antenna
- Indications - Door & lock bar position indications
- Prime paint finish

## Optional Features:

- Manual release in cover box with 1010A paralentic lock
- Pilaster release (P-1)
- Electric key switch, paracentric or mogul (P-1 or PKM-1)
- Electric half cycle (D)
- Emergency gang release - manual release cabinet (MRC)
- No lock open (NLO)
- Flat top cover boxes (FT)
- Empty in fill boxes
- Hot dip galvanized finish (G)
- Remote panel lock system (RP)

## Technical Data

<b>Cover Box</b>	1' 0-3/4" H x 7-1/8" D (324 x 181mm)
<b>Cover Box Material</b>	7 gauge steel plate
<b>Hinged Panel</b>	10 gauge steel
<b>Door Rollers</b>	3" (76mm) diameter, machined steel with sealed bearings
<b>Vertical Lock Bar Dimensions</b>	5/8" (16mm) SQ by full height of door
<b>Finish</b>	Prime paint
<b>Door Hanger</b>	7 gauge steel plate
<b>Electrical</b>	<i>Motor:</i> 1/60 HP, 115 VAC, 60 Hz., single phase power <i>Inrush:</i> .7A <i>Locked Rotor Current:</i> 8A
<b>Wire Requirements</b>	When electric operation of the door is from a remote station, a minimum of five conductors (minimum 14 gauge) are required between the control point and the door, except for those models having the letter "K" (keyswitch) in the suffix. Keyswitch models require minimum six conductors

## Door Schedule

Door Height	Clear Opening	Frame Opening	Cover Box Length	Door Width
8'-0" Maximum	2'-6" (762mm)	2'-6" (762mm)	6'-0" (1829mm)	2'-6 1/2" (775mm)
	2'-8" (813mm)	2'-8" (813mm)	6'-8" (2032mm)	2'-8 1/2" (826mm)
	3'-0" (914mm)	3'-7" (1092mm)	7'-4" (2235mm)	3'-2 1/2" (978mm)
	3'-6" (1067mm)	4'-1" (1245mm)	8'-4" (2540mm)	3'-8 1/2" (1130mm)
	4'-0" (1219mm)	4'-7" (1397mm)	9'-4" (2845mm)	4'-2 1/2" (1283mm)

**Note:** Cover Box minimum length = (7" (178mm) overtravel) + (2 x Clear Opening) + 9" (229mm) if pilaster is used. For Doors exceeding 300 lbs. (136kgs) and/or greater than 4'-0" Clear Opening, contact factory.

# Electric Locking System



## Application

The S3150LX.b system offers complete selective electric operation of sliding doors in a line or group from a remote control station. Doors are operated by electric motors through a rack and pinion drive mechanism over each door.

This product also provides the option of emergency mechanical unlocking from a control cabinet at the head of the door line.

Doors are locked at top and bottom in both the open and closed positions by means of a concealed vertical lock bar at the rear jamb of each door. The vertical lock bar is deadlocked at a third locking point inside the horizontal cover box above the door. Standard clear door opening widths are from 2'4" to 3'2" (711 to 966mm).

## Function

**Electric** - A remote switch activates a motor which raises a vertical lock bar and propels the door open or closed. Individual lamp indicators on the control panel show locked/unlocked condition. A single switch can provide group unlocking.

**Mechanical** - In the absence of electrical power doors may be individually unlocked with a manual release tool. Door movement is by hand and door will relock in either fully open or closed position.

## Standard Features

- Full remote control unlocking & movement of door
- Obsero control module
- Bottom door guide
- Door hanger
- Manual release in cover box
- Sloped-front cover box
- Hinged cover panel for maintenance access
- Vertical lock bar assembly
- Lock Open Position
- Integrated Bluetooth / Internal Antenna
- Indications - Door & lock bar position indications
- Prime paint finish

## Optional Features:

- Manual release in cover box with 1010A paracentric lock
- Pilaster release (P-1)
- Electric key switch, paracentric or mogul (P-1 or PKM-1)
- Emergency gang release - manual release cabinet (MRC)
- No lock open (NLO)
- Flat top cover boxes (FT)
- Empty infill boxes
- Hot dip Galvanized finish (G)
- Remote panel lock system (RP)
- 3 hour fire rated (UL)

## Technical Data

<b>Cover Box</b>	1' 0 - 3/4" H x 7-1/2" D (342 x 181mm)
<b>Cover Box Material</b>	7 gauge steel plate
<b>Hinged Panel</b>	10 gauge steel
<b>Door Rollers</b>	3" (26mm) diameter, machined steel with sealed bearings
<b>Vertical Lock Bar Dimensions</b>	5/8" (76mm) SQ by full height of door
<b>Finish</b>	Prime paint
<b>Door Hanger</b>	7 gauge steel plate
<b>Electrical</b>	<i>Motor:</i> 1/20 HP, 115 VAC, 60 Hz., single phase power <i>Inrush:</i> .8A <i>Running:</i> .72A <i>Locked Rotor Current:</i> 1.2A
<b>Wire Requirements</b>	When electric operation of the door is from a remote station, a minimum of five conductors (minimum 14 gauge) are required between the control point and the door, except for those models having the letter "K" (keyswitch) in the suffix. Keyswitch models require minimum six conductors

## Door Schedule

Door Height	Clear Opening	Frame Opening	Cover Box Length	Door Width
8'-0" Maximum	2'-6" (762mm)	2'-6" (762mm)	6'-0" (1829mm)	2'-6 1/2" (775mm)
	2'-8" (813mm)	2'-8" (813mm)	6'-8" (2032mm)	2'-8 1/2" (826mm)
	3'-0" (914mm)	3"-7" (1092mm)	7'-4" (2235mm)	3'-2 1/2" (978mm)
	3'-6" (1067mm)	4'-1" (1245mm)	8'-4" (2540mm)	3'-8 1/2" (1130mm)
	4'-0" (1219mm)	4'-7" (1397mm)	9'-4" (2845mm)	4'-2 1/2" (1283mm)

**Note:** Cover Box minimum length = (7" (178mm) overtravel) + (2 x Clear Opening) + 9" (229mm) if pilaster is used. For Doors exceeding 300 lbs. (136kgs) and/or greater than 4'-0" Clear Opening, contact factory.

# Electric Locking System



## Application

The S3165LX.b system includes several versions of a system designed for locking, unlocking and propelling sliding doors in safety vestibules, in dayrooms or in high-traffic corridors.

Each S3165LX.b model utilizes an electric motor to operate the door through a rack and pinion drive mechanism. Doors are locked at top and bottom in both the open and closed positions by means of a concealed vertical lock bar at the rear jamb of the door. The vertical lock bar is deadlocked at a third locking point inside the horizontal cover box above the door. Standard clear door opening widths available are 3' 0" to 4' 6" (915 - 1372mm).

## Function

**Electric** - A remote switch activates a motor which raises a vertical lock bar and propels the door open or closed. Individual lamp indicators on the control panel show locked / unlocked condition.

**Mechanical** - Manual unlocking is provided for each device. After being manually released, door movement is by hand. The door automatically deadlocks when moved to the fully open or closed position.

## Standard Features

- Full remote control unlocking & movement of door
- Obsero control module
- Bottom door guide
- Door hanger
- Manual release in cover box
- Sloped-front cover box
- Hinged cover panel for maintenance access
- Vertical lock bar assembly
- Lock Open Position
- Integrated Bluetooth / Internal Antenna
- Indications - Door & lock bar position indications
- Prime paint finish

## Optional Features:

- Manual release in cover box with 1010A paracentric lock
- Pilaser release (P-1 or P-2)
- Electric key switch - paracentric or mogul (PK-1 or PK-2 / PKM-1 or PKM-2)
- Flat top cover boxes
- Hot dip Galvanized (G)
- 3 hour fire rated (UL)

## Technical Data

<b>Cover Box</b>	1' 0-3/4"(h) x 7-1/2"(d) (342 x 181mm)
<b>Cover Box Material</b>	7 gauge steel plate
<b>Hinged Panel</b>	10 gauge steel
<b>Door Rollers</b>	3" (75mm) diameter, with sealed bearings
<b>Vertical Lock Bar Dimensions</b>	5/8" (16mm) SQ by full height of door
<b>Finish</b>	Prime paint
<b>Door Hanger</b>	7 gauge steel plate
<b>Electrical</b>	<i>Motor:</i> 1/8 HP, 115 VAC, 60 Hz., single phase power <i>Inrush:</i> 1.1A <i>Running:</i> .9A <i>Locked Rotor Current:</i> 3.1A
<b>Wire Requirements</b>	When electric operation of the door is from a remote station, a minimum of five conductors (minimum 14 gauge) are required between the control point and the door, except for those models having the letter "K" (keyswitch) in the suffix. Keyswitch models require minimum six conductors

## Door Schedule

Door Height	Clear Opening	Frame Opening	Cover Box Length	Door Width
8'-0" Maximum	3'-0" (914mm)	3'-7" (1092mm)	7'-4" (2235mm)	3'-2 1/2" (978mm)
	3'-6" (1067mm)	4'-1" (1245mm)	8'-4" (2540mm)	3'-8 1/2" (1130mm)
	4'-0" (1219mm)	4'-7" (1397mm)	9'-4" (2845mm)	4'-2 1/2" (1283mm)
	4'-6" (1372mm)	5'-1" (1549mm)	10'-4" (3150mm)	4'-8 1/2" (1435mm)
	5'-0" (1524mm)	5'-7" (1702mm)	11'-4" (3454mm)	5'-2 1/2" (1588mm)
	5'-6" (1676mm)	6'-2" (1880mm)	12'-4" (3760mm)	5'-8 1/2" (1740mm)
	6'-0" (1829mm)	6'-9" (2057mm)	13'-4" (4064mm)	6'-2 1/2" (1892mm)

**Note:** Cover Box minimum length = (7" (178mm) overtravel) + (2 x Clear Opening) + 9" (229mm) for pilaster. For Doors exceeding 450 lbs. (208kgs) and/or greater than 6' (1829mm) Clear Opening, contact factory.

# Sliding Devices Ordering Procedure

Lock Model	Functions Available	Keyed 1 or 2 Sides	Voltage	Clear Opening Size	Direction Of Opening	Nomenclature Examples
S4110L	P-1, PK-1, PKM-1, D, NLO, FT, G	1	110V	From Door Schedule	LH → or RH ←	S4110LP_1_110V_3'_RH DEVICE
S3150LX.b	P-1, PK-1, PKM-1, D, NLO, FT, G	1	110V, 240V	From Door Schedule	LH → or RH ←	S3150LX.bP_1_NLO_110V_3'_RH DEVICE
S3165LX.b	P-1 or P-2, PK-1 or PK-2, PKM-1 or PKM-2, D, NLO, FT, G	1 or 2	110V, 240V	From Door Schedule	LH → or RH ←	S3165LX.BP_2_110V_4'_LH DEVICE

FOR MRC / RP / WC function options refer to the factory for details

## Accessories



S204E

ACCESSORIES

# Electric Power Transfer Hinge



## Application

Designed to supply power from door frames to electric locks on hollow metal doors, the S204E Power Transfer Hinge contains eight UL 1061 PVC Hook-Up Wires - 22AWG Stranded & one UL 2651 PVC Round Conductor Flat Cable - 28AWG 6-Conductor. Available in full mortise configuration only to be used with 204FM institutional hinges. This is not a load-bearing hinge.

## Technical Data

<b>Standard Finish</b>	US26D
<b>Size</b>	4-1/2" x 4-1/2" x 3/16" (114 x 114 x 4.75mm)
<b>Weight</b>	1.6 lbs.
<b>Hinge Leaves</b>	Cast Stainless Steel
<b>Hinge Pin</b>	5/8" diameter (16mm) O.D. tubing steel
<b>Electrical</b>	1 amp capacity, 40 volts maximum

200MRS TB

ACCESSORIES

# Magnetic Switch

## Application

The 200MRS TB is used where a built-in door indicator switch is desired. This tamper-proof unit is mortised into the door frame. An actuating magnet is recessed into the door edge. Provided with security fasteners.



## Technical Data

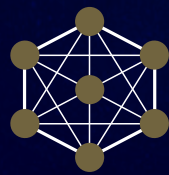
<b>Size</b>	4-7/8" (l) x 1-1/4" (w) (123.8 x 31.75mm)
<b>Weight</b>	1 lb (0.454 kg)
<b>Electrical</b>	24 volts (AC or DC)

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