

# 1581S Series

## Mini Integrated Delayed Egress Locks



SDC's 1581S series mini delayed egress locks are designed to meet the needs of long term care and commercial facilities that require a smaller, less obtrusive, and less expensive delayed egress lock that is better suited for minimum security needs. **Size matters.**

Designed to delay egress through perimeter exit doors for 15 or 30 seconds, alert security and personnel to unauthorized egress, and are compatible with access controls and patient wandering systems.

In addition, the subdued alarm is less disruptive to patients and staff. SDC has also maintained all the features and status outputs found in most higher holding force delayed egress locks on the market.

A choice of operation mode allows users to meet their local code compliance while meeting all national and regional building and fire life safety codes, including NFPA 101, Special Locking Arrangements. All SDC delayed egress locks release immediately in an emergency.

**The 1581S series locks can be utilized in single or double door applications. A remote key switch or access control must be provided to operate the reset and request-to-exit (REX) functions.** For double door applications, order two 1581S locks with a tandem cable kit. The tandem cable kit enables slave operation, pushing either door leaf triggers the delayed release of both doors.\*

\* See related products for tandem cable kits.



### MODELS

**1581S** Mini Delayed Egress Lock



### STANDARD FEATURES

- Integrated delayed egress magnetic lock
- Interlocking quick mount assembly
- Subdued alternating alarm
- Built-in activation trigger
- Adjustable door movement sensor
- Low power consumption, energy saver
- Wandering patient, patient and infant tracking system compatible
- Code compliant operation modes
- Auto-sensing dual voltage
- Voltage and current spike protection
- Field selectable activation trigger
- Field selectable door prop alarm activation
- Field selectable alarm reset on REX
- Fixed nuisance time
- Single or multi-door zone control and reset
- Remote reset
- Fire/emergency release
- Anti-tailgate
- 5' power cable



### OPTIONAL FEATURES

- Door position status (DPS)
- Bond alert status (BAS)



## APPLICATIONS

Typically used on exit doors, when unauthorized egress is initiated in the locked mode, SDC's ExitCheck® locks delay egress through the door for 15 or 30 seconds. Meanwhile, the person exiting must wait while personnel or security respond. The door unlocks after 15 seconds have elapsed, permitting egress. A signal from the fire life safety system will release the lock for uninhibited egress in an emergency. 30 second delay available where approved.

### BUILT-IN ACTIVATION FOR LATCHING DOORS

The mechanical latch mechanism must be locked on the exterior and unlocked on the interior. From the inside, retracting the door latch and applying pressure causes limited door movement. The built-in activation trigger senses the door movement and initiates delayed egress operation. The adjustable sensor helps prevent false triggering.

### EXTERNAL ACTIVATION FOR LATCHING DOORS\*

Where preferred, activation may be accomplished by a latch monitoring strike or a switch installed in a standard latching exit device or lockset. A power transfer device is required for exit devices equipped with a trigger switch.

### EXTERNAL ACTIVATION FOR NON-LATCHING DOORS\*

The external activation trigger input must be used with doors without latch assemblies, such as latchless glass and herculite doors. Activation may be triggered by SDC's MSB550 or PSB560 series egress bars. A power transfer device is required. Pushing on a request-to-exit egress bar immediately activates the delayed egress operation.

### AUTO POWER-UP

When selected, regardless of the means of deactivation, relocking of the ExitCheck® occurs when power is restored and/or the fire life safety panel is reset.

### MANUAL POWER-UP

UBC, California Building Code (OSHPD) Compliant Reset

When selected, regardless of the means of deactivation, relocking of the ExitCheck® is by manual means only at the door. Only after power restoration and/or fire life safety panel reset, the door requires a wall mounted key switch, push switch or digital keypad located adjacent to the door to relock.

\* Separate door position switch recommended.

### KEYLESS CONTROL

For reset, manual power up, momentary bypass and sustained bypass functions, the SDC 920 wall mounted keypad provides the convenience of keyless operation for alarm reset, manual power-up, momentary bypass and sustained bypass functions..

### AIRPORT & PUBLIC FACILITY SECURITY & SAFETY

Control pedestrian traffic in government, public and transportation facilities, including airport jetways and tarmacs.

### LOSS PREVENTION

Provide theft protection of retail merchandise, technology and other valuables, such as art and museum artifacts.

### ACCESS CONTROL

Access controls may be utilized for authorized egress, access and lock reset. Access from the exterior of latching doors requires an additional means of mechanical lock release, such as a mechanical key or electric strike.

### WANDERING PATIENT AND INFANT PROTECTION


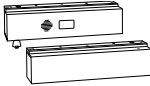
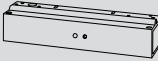
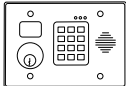
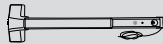
Restrict the egress of psychiatric and drug rehab patients, elderly patients in assisted living facilities and restrict the movement of nursery infants for their own safety and security.

### PATIENT & INFANT TRACKING SYSTEMS

The SDC ExitCheck® is compatible with patient tracking systems like those used for protection against infant abduction from hospital nurseries and for the protection of patients in long term care facilities who may be endangered if they leave their care facility without supervision.



## CROSS REFERENCE

Series	1511S	1511T	1581S	101-DE	S6000-101
					
Type	EMLock, 1650lbs	EMLock, 1650lbs	EMLock, 650lbs	Controller	Exit Device
DE System	Integrated	Integrated	Integrated	Two-Piece	Integrated
DE Activation	Built-In	Built-In	Built-In	Slave Unit	Built-In
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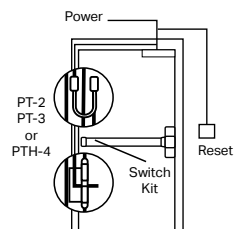
## SPECIFICATIONS

### 1581S

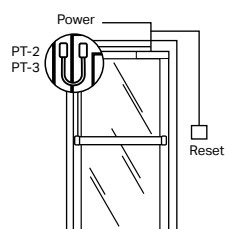
<b>Housing</b>	Aluminum
<b>Door Opening</b>	Single or Double/Pair*
<b>Holding Force</b>	650 lbs
<b>Dimensions</b>	10" x 2½" x 2¾" Housing 8" x 1¾" x 7⁄8" Armature
<b>Weight</b>	7 lbs
<b>Tone Instructions</b>	Activation: Short beeps Lock Release: Long beeps
<b>Input</b>	12/24 VDC ± 10% Auto-sensing
<b>Current Draw</b>	600 mA @ 12VDC 350 mA @ 24VDC
<b>Door Position Status (DPS)</b>	SPDT
<b>Bond Alert Status (BAS)</b>	250 mA @ 30 VDC Resistive
<b>Alarm &amp; Lock Secure Outputs</b>	SPST 1 Amp @ 30 VDC Resistive

\* See related products for tandem cable kits.

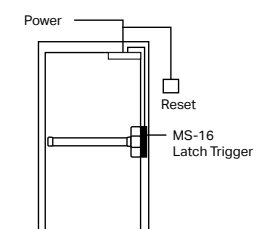
OPERATION MODES	ND	NH	NC	BD	BH	BC
<b>NFPA 101 Compliant</b>	Yes	Yes	Yes	----	----	----
<b>NFPA1-UFC Compliant</b>	Yes	Yes	Yes	----	----	----
<b>UBC Compliant</b>	Yes	Yes	Yes	----	----	----
<b>IBC Compliant</b>	Yes	Yes	Yes	----	----	----
<b>IFC Compliant</b>	Yes	Yes	Yes	----	----	----
<b>SBC Compliant</b>	Yes	Yes	Yes	----	----	----
<b>CBC Compliant</b>	----	----	Yes	----	----	----
<b>BOCA Compliant</b>	----	----	----	Yes	Yes	Yes
<b>Chicago Compliant</b>	----	----	----	----	----	Yes
<b>Egress Delay</b>	Fixed 15 sec	Fixed 30 sec	Fixed 15 sec	Fixed 15 sec	Fixed 30 sec	Fixed 15 sec
<b>Nuisance Time</b>	Fixed 1 sec	Fixed 1 sec	Fixed 1 sec	Fixed 1 sec	Fixed 1 sec	Fixed 0 sec
<b>Reset After Alarm</b>	Manual	Manual	Manual	Auto/Manual	Auto/Manual	Auto/Manual
<b>Lock On Power Up</b>	Selectable Locked or Unlocked	Selectable Locked or Unlocked	Fixed Unlocked	Selectable Locked or Unlocked	Selectable Locked or Unlocked	Selectable Locked or Unlocked



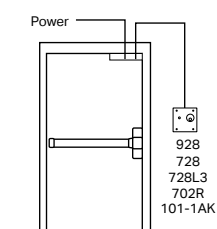
Latching Exit Device with  
Built-in Switch Kit Trigger



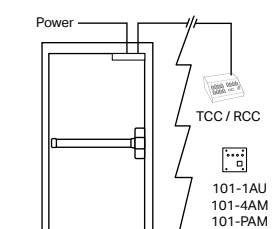
Sense Bar Trigger  
Non-Latching PSB560,  
MSB550



Latch Monitoring Strike Trigger  
For Mortise Exit Devices



Wall Mount Reset Station  
Required with 1581SND



Remote Annunciators  
and Control Panels



## CERTIFICATIONS\*

UL 294 Access Control System Units  
 UL 10B Fire Tests of Door Assemblies  
 UL 10C Positive Pressure Fire Tests of Door Assemblies  
 ULC-S104 Standard Method for Fire Tests of Door Assemblies  
 ULC-S533 Egress Door Securing and Releasing Devices  
 NFPA 101 Life Safety Code Special Locking Arrangements  
 NFPA 1-UFC Uniform Fire Code  
 UBC Uniform Building Code Standard 7-2 Fire Test of Door Assemblies (1997)

IBC International Building Code Delayed Egress Locks  
 IFC International Fire Code Delayed Egress Locks  
 SBC Standard Building Code  
 CBC, California Building Code Special Egress Control Devices  
 BOCA National Building Code Special Locking Arrangements  
 Chicago Building Code Electro-Magnetic Locking Devices  
 CSFM Listed 3774-0324:0103

\* All installations must be approved by the local Authority Having Jurisdiction (AHJ).



## HOW TO ORDER

## FOLLOW STEPS FOR ORDERING

Designates optional step

### 1| SPECIFY MODEL

**1581S** Mini Delayed Egress Lock

### 2| SPECIFY MODE\*

**ND** NFPA 101, Fixed 15 Second Egress Delay

**NH** NFPA 101, Fixed 30 Second Egress Delay

**NC** CBC Compliant

**BD** BOCA, Fixed 15 Second Egress Delay

**BH** BOCA Fixed 30 Second Egress Delay

**BC** Chicago Compliant

\* See specifications operation modes chart for complete functionality and compliance details.

### 3| SPECIFY FINISH

**V** 628 Dull Aluminum

**Y** 335 Dull Black

**C** 605 Bright Brass

**X** 710 Dark Bronze

**Q** 626 Dull Chrome

**P** 625 Bright Chrome

### 4| SPECIFY OPTIONS

**D** Door Position Status (DPS)

**B** Bond Alert Status (BAS)

STEP NUMBER:	1	2	3	4
ORDERING EXAMPLE:	<b>1581S</b>	<b>ND</b>	<b>V</b>	<b>D B</b>



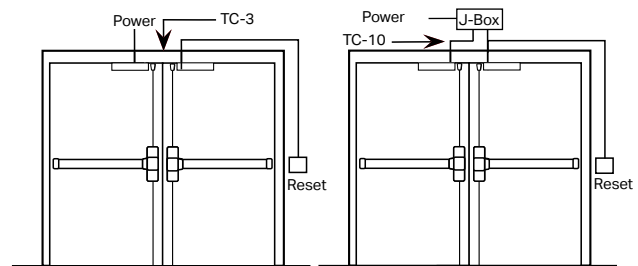
## RELATED PRODUCTS

### TANDEM CABLE KITS

Required when using two locks on a pair of doors, cables enable slave operation. Pushing either door triggers the delayed release of both doors.

**1581S-TC-3** Frame Header Tandem Cable Kit, 3ft

**1581S-TC-10** Remote Junction Box Tandem Cable Kit, 10ft



Pair of doors with two locks and required TC-3 cable for power and slave operation. Pushing either door triggers the delayed release of both doors.

Pair of doors with two locks and required TC-10 cable for power and slave operation. Pushing either door triggers the delayed release of both doors.



## RELATED PRODUCTS\*

### FILLER PLATES

For extension of the stop to provide a proper mounting surface on the underside of the header.

**FP11V** 1/8" x 1 1/4" x 11"

**FP12V** 1/4" x 1 1/4" x 11"

**FP13V** 3/8" x 1 1/4" x 11"

**FP14V** 1/2" x 1 1/4" x 11"

**FP15V** 5/8" x 1 1/4" x 11"



### DELAYED EGRESS KEY SWITCHES

Stainless steel wall mounted key control stations provide for convenient alarm reset or bypass for authorized egress.

**702RU\*** Mortise Key Switch, Reset, MO

**707RU\*** Mortise Key Switch, Reset & REX, MO/MO

**708RU\*** Mortise Key Switch, Reset & Bypass, MO/AA

**728RU** Keylock Switch, Reset & Bypass, MO/AA

**728RUL3** Keylock Switch, Reset & Bypass, MO/AA, LED



\* Key cylinders not included, order separately..

### COMPATIBLE KEY CYLINDERS

**CYL-6KAQ** Mortise Cylinder 6-Pin, 1 1/8" Length, Keyed Alike

**CYL-6KDQ** Mortise Cylinder, 6-Pin, 1 1/8" Length, Keyed Different



### ANGLE BRACKETS

Used as extension on shallow door frames to provide adequate mounting surface.

**AB11V** 1" x 1" x 11"

**AB12V** 1" x 1 1/2" x 11"

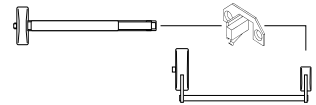
**AB13V** 1 1/2" x 1 1/2" x 11"

**AB14V** 2" x 1 1/2" x 11"



### RETROFIT SWITCH KITS

SDC's 00500 series retrofit switch kits provide electromagnetic lock release, delayed egress activation, request-to-exit (REX), alarm shunt or alarm activation.



Switch kits are field installed in the inactive hinge pad of rim mount exit devices, mortise exit devices, concealed vertical rod exit devices and surface vertical rod exit devices.

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### DELAYED EGRESS ANNUNCIATORS

Stainless steel local or remote annunciators provide quick identification of activated openings, enabling security or care personnel to respond rapidly. Annunciators are equipped with an audible alarm and each station is equipped with a tri-color LED that identifies delayed egress status.

**101-1A** Single Door Indicator, Single Gang"

**101-4AM** Four Door Indicator, Alarm Shunt, Double Gang

**101-1AK\*** Single Door Indicator, Key Switch Reset & Bypass, Double Gang"

**101-PAM** Single Door Indicator, Alarm Shunt, Push Button Reset & Bypass, Double Gang

\* Key cylinders not included, order separately..



**101-1A**



**101-4AM**



**101-1AK**



**101-PAM**

\* Consult factory for special finishes.

## COMPONENT CONSIDERATIONS

### EGRESS DEVICES

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SDC egress devices are designed for the release of magnetic locks and the activation of delayed egress locks installed on non-latching doors. Request-to-exit push bars provide uninhibited egress through access-controlled openings equipped with magnetic locks, while eliminating the need for prior knowledge of egress operation and enabling egress with a single natural motion. Request-to-exit push bars also eliminate the need for wall mounted exit switches requiring prior knowledge to unlock the door.

### EMERGENCY DOOR RELEASES

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SDC's line of emergency door releases (EDR's) are designed to provide a physical method of unlocking an electronic lock in the event of an emergency and may influence the approval of an electric locking system. EDR's are usually fitted to emergency exit doorways in higher security areas. Our EDR's can initiate the release of an individual door or all doors on the same circuit and provide an auxiliary contact remote monitoring, CCTV activation or alarm activation.

### REMOTE CONTROL CONSOLES

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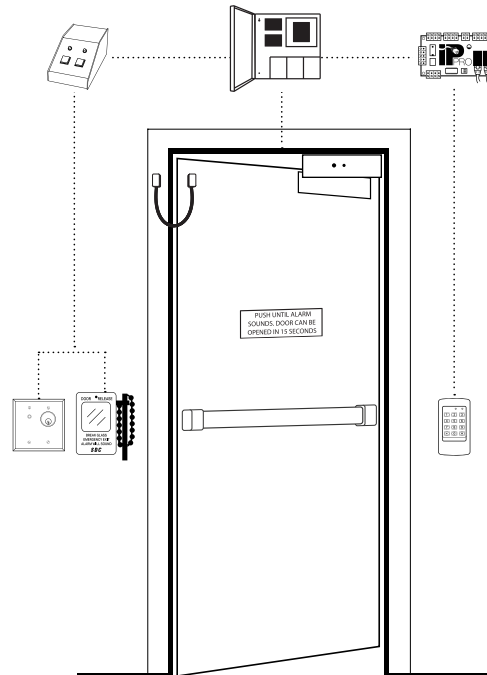
Recommended for access systems without computer management capability, SDC's remote control consoles provide a means of central supervision and control of single and multiple openings within a facility. Available in several configurations, the TCC and RCC consoles provide remote lock control, door status and lock status. The modular design permits configuration flexibility to meet the demands of different control and monitoring requirements.

### KEYPADS & READERS

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SDC has a variety of digital keypad and proximity card access control system equipment to meet any need. SDC's keypads and readers are engineered to provide real-world door control of a single opening up to 100 doors, such as indoor, outdoor and PC-based systems, while ensuring fire and life safety code compliance along with superior expandability and flexibility in authorization identification, authentication, access approval and accountability of entities through login credentials.



### POWER CONTROLLERS

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SDC access control power supplies have been developed specifically to support access controls and electric locking hardware. They are UL listed and provide filtered and regulated linear DC power, with optional control logic, component interface, alarm interface and battery back-up to meet the requirements of single and multiple access-controlled openings. The circuitry design is ideal for the inductive loads generated by access control hardware for high performance and longevity.

### IP-BASED CONTROLLERS

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SDC's low power line of IP-based access control solutions eliminate long cable runs and multiple power supplies by allowing easy integration and connection to an access control system using ordinary ethernet cable in a PoE enabled network. We've ensured they work in low power PoE environments where energy efficiency, flexibility and green and sustainable requirements reach all the way to electronic hardware and locks for controlling door openings.