SECURITY DOOR CONTROLS

ISO 9001 CERTIFIED
FM 52705

101 S/D/T and 1511S/D/T Exit Check Delayed Egress

Control Wandering Patients
Control Pedestrian Traffic
Stop Shoplifting and Theft

Application
When unauthorized egress is initiated, SDC Exit Check® delays egress through the door for 15 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.

Exit Check® applications include:

- Theft protection for technology, merchandise and other valuables, such as museum artifacts.
- The control of pedestrian traffic in airports and other public facilities for security and public safety.
- Restricting the egress of patients for their own safety.

Facility Applications
Airports
Convention Halls
Wholesale Stores
Long Term Care
Drug Rehab
Psychiatric Care
Infant Nurseries
Museums
Art Galleries
Warehouses
Technology Facility

Code Compliance
Selected Exit Check® models are available to comply with one or more codes listed below. See Operation on page 3.

NFPA 101 Life Safety Code
5-2.1.6
Special Locking Arrangements

UBC /Uniform Building Code
1003.3.1.10
Special Egress Control Devices

SBC /Standard Building Code
1012.6
Special Locking Arrangements

International Building Code
1003.3.1.8.2
Delayed Egress Locks

International Fire Code
1003.3.1.8.2
Delayed Egress Locks

BOCA, National Building Code
1017.4.1.2
Special Locking Arrangements

Chicago Building Code
10 (13-160-269)
Electro-Magnetic Locking Devices.
Certificate of approval available

Wandering Patient Systems
The SDC Exit Check® is compatible with wandering patient systems, like those used for protection against infant abduction from hospital nurseries, and in long term care facilities for the protection of patients who may be endangered if they are able to leave their care facility without supervision.

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

Local Approval
All installations must be approved by the Authority Having Jurisdiction (AHJ).

c UL us
GWXT Special Locking Arrangements

BHMA CERTIFIED

ANSI/BHMA A156.24
American National Standard for Delayed Egress Locks

California State Fire Marshal Listed

MADE IN THE USA

Fire Life Safety Release Input
- A signal from the fire alarm unlocks the door immediately for uninhibited egress.

Slave Lock Output
- When utilizing Tandem and Double units, activating either door unlocks both doors in 15 seconds.

Choice of Activation Trigger
- Built-in Door Movement sensor with sensitivity adjustment
- External trigger device input
  Exit Device Switch
  Latch Monitoring Strike
  Pressure Sense Bar

Field Selectable or Fixed Delay
- NFPA 101 Operation
  Adj. Exit Delay 15 or 30 sec.
  Adj. Nuisance Delay 0,1, 2 & 3 sec.
  Fixed delay times available

- BOCA Operation
  1 second nuisance delay
  15 second exit delay
  30 second auto-reset delay

- The accumulative total of the exit delay and nuisance delay does not exceed 15 seconds (30 optional)

Multiple Monitoring Outputs
- Door Secure / Unlocked Output
- Activation Alarm Output
- Door Position Status (optional)
- Magnetic Bond Status (optional)

Access Control / REX Input
- Timed Bypass (Adj. 15-45 sec.)

Built-in 3 Function Key Control
- Alarm Reset (NFPA function only)
- Sustained Bypass
- Timed Bypass (Adj. 15-45 sec.)

Code Compliant Door Sign

PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS.

Compatible with Existing Locks and Exit Devices

BHMA Certified Holding Force
- 1650 lbs.

101S Annunciation

The Exit Check® 101 series incorporates an **alternating 85 db tone and verbal message with a digital countdown display** and sign that provides clear and comprehensive instructions for persons without prior knowledge of door operation. This is especially significant for those who are **blind and/or hearing impaired.**

NFPA 101 Compliant Models

101S NA K V Single
101D NA K V Double
101T NA K V Tandem

Code and Standard Compliance

NFPA 101, UBC, SBC, IBC, IFC

ANSI/BHMA A156.24 American National Standard for Delayed Egress Locks

Annunciation

Alternating verbal exit instruction and alarm tone with digital countdown display.

NA - Operation

1) When the door is closed, latched, and the lock is energized, "15" is displayed indicating the door is secure.

2) Applying less than 15 lbs of pressure and releasing the door latch activates the nuisance timer, intermittent alarm tone and the digital display count down. If the door is released before the nuisance time setting (0, 1, 2, 3 sec.) has elapsed, the door stays locked, the alarm tone stops and the digital display resets to "15".

3) When activation exceeds the nuisance time (1, 2, 3 sec.) or the nuisance timer is set at 0, an irreversible process begins that will unlock the door in 15 seconds (30 seconds optional). The digital display continues to countdown and the alarm tone and verbal instructions alternate.

Tone....Security has been alerted.
Exit in 10 seconds.
Tone....Exit in 5 seconds.

4) The door unlocks when 15 sec. has elapsed and the digital display indicates "00". The alarm tone and verbal instructions continue to alternate.

Tone.....exit now. Tone....exit now.

5) The lock must be manually reset

K - A built-in keyswitch provides alarm reset, sustained bypass and timed bypass.

V - Clear anodized aluminum.

BOCA Compliant Models

101S BD K V Single
101D BD K V Double
101T BD K V Tandem

City of Chicago Compliant Models

101S CD K V Single
101D CD K V Double
101T CD K V Tandem
Chicago compliant activation by solid state electronics only. No moving parts. Also BOCA compliant.

Annunciation

Alternating verbal exit instructions and alarm tone with digital countdown display.

BD / CD Operation

1) When the door is closed, latched, and the lock is energized, "15" is displayed indicating the door is secure.

2) Applying less than 15 lbs. of pressure and retracting the door latch sounds an activation warning tone. If the door is released in less than 1 second, the warning tone stops and the door stays locked.

3) When activation exceeds 1 second, an irreversible process begins that will unlock the door in 14 seconds. The digital display counts down and the alarm tone and verbal instructions alternate, alerting personnel.

Tone....Security has been alerted.
Exit in 10 seconds.
Tone....Exit in 5 seconds.

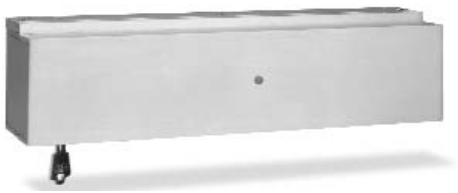
4) The door unlocks when 15 seconds (1 + 14) has elapsed and the digital display indicates "00". The alarm tone and verbal instructions continue to alternate.

Tone.....exit now. Tone....exit now.

5) The door must be opened and then closed for 30 seconds before it automatically relocks and annunciation stops. Any reopening of the door before the end of the 30 second relocking cycle will restart the 30 second relocking cycle.

K - Built-in key switch provides sustained and timed bypass. Reset is automatic. Manual reset not available.

V - Clear anodized aluminum finish.



1511S / T & 1512D Annunciation

The Exit Check® 1511S /T and 1512D incorporate an 85 db alarm with three distinct tones and a tri-color LED visual indicator to provide mode status. A sign per NFPA requirements is included.

NFPA 101 Compliant Models

1511S NA K V Single
1512D NA K V Double
1511T NA K V Tandem

Code and Standard Compliance

NFPA 101, UBC, SBC, IBC, IFC

ANSI/BHMA A156.24 American National Standard for Delayed Egress Locks.

Annunciation

3 distinct alarm tones and tri-color LED

NA - Operation

1) When the door is closed, latched, and the lock is energized, the Green LED indicates the door is secure.

2) Applying less than 15 lbs of pressure and releasing the door latch activates the nuisance timer, intermittent alarm tone, and the LED becomes Amber. If the door is released before the nuisance time setting (0, 1, 2, 3 seconds) has elapsed, the door stays locked, the alarm tone stops, and the LED changes back to Green.

3) When activation exceeds the nuisance time (1, 2, 3 sec.) or the nuisance timer is set at 0, an irreversible process begins that will unlock the door in 15 seconds (30 seconds optional). The LED is amber and the alarm changes to an alternating tone.

4) The door unlocks when 15 seconds has elapsed, the LED changes to red and the alarm tone becomes continuous.

5) The lock must be manually reset.

K - Built-in key switch provides alarm reset, sustained bypass and timed bypass (15-45 seconds).

V - Clear anodized aluminum finish.

BOCA Compliant Models

1511S BD K V Single
1512D BD K V Double
1511T BD K V Tandem

City of Chicago Compliant Models

1511S CD K V Single
1512D CD K V Double
1511T CD K V Tandem
Chicago compliant activation by solid state electronics only. No moving parts. Also BOCA compliant.

Annunciation

3 distinct alarm tones and tri-color LED

BD / CD Operation

1) When the door is closed, latched, and the lock is energized, the Green LED indicates the door is secure.

2) Applying less than 15 pounds of pressure and retracting the door latch sounds an activation warning tone. If the door is released in less than 1 second, the warning tone stops and the door stays locked.

3) When activation exceeds 1 second, an irreversible process begins that will unlock the door in 14 seconds and annunciation continues, alerting personnel that egress has been initiated.

4) The door unlocks when 15 seconds (1 + 14) has elapsed and annunciation continues.

5) The door must be opened and then closed for 30 seconds before it automatically relocks and annunciation stops. Any reopening of the door before the end of the 30 second relocking cycle shall restart the 30 second relocking cycle.

K - Built-in key switch provides sustained and timed bypass. Reset is automatic. Manual reset not available.

V - Clear anodized aluminum finish.

S (Single)

D (Double)

T (Tandem)

Single, Double and Tandem

Models are available to accommodate single and pairs of doors. See page 4 for proper application.

Activation Triggers
The Exit Check® is equipped with a built-in activation trigger and a remote trigger device input.

Built-In Activation Trigger
The built-in activation trigger may only be used with doors equipped with a latch assembly (i.e. mechanical lockset or exit device).

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.

Remote Activation Trigger Input
Non-Latching Door Activation
The remote trigger activation input must be used with doors without latch assemblies (i.e. latchless glass and herculite doors).

Activation may be triggered by the SDC MSB550 Switch Bar or the SDC Sure Exit, request-to-exit push bar. A power transfer device is required.

Pushing on the request-to exit push bar immediately activates the delayed egress operation.

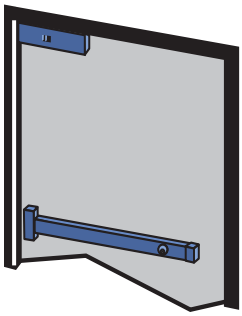
Latching Door Activation
Where preferred, activation may be accomplished by a latch monitoring strike, or a switch installed in a standard latching exit device or lockset. A power transfer device is required for exit devices equipped with a trigger switch.

See SDC datasheets for detailed information on SDC MS Series Latch Monitoring Strikes, Exit Device Switch Kits and Power Transfer Devices.

Single Model
For use with single doors equipped with surface vertical rod, concealed vertical rod, mortise and rim mount exit devices, mortise locksets and cylindrical locksets.


101S

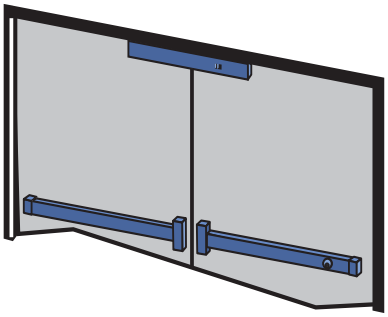

1511S



Double Model
For use with pairs of doors equipped with mortise, rim and concealed vertical rod exit device with concealed strikes and triggers, mortise locksets and cylindrical locksets. Activating either door unlocks both doors.


101D

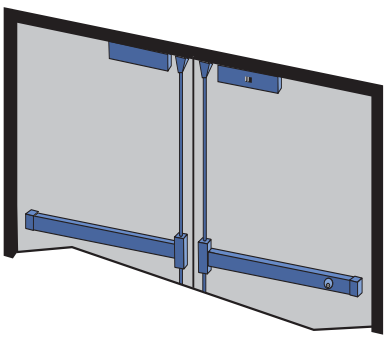

1512D



Tandem Model
For use with pairs of doors equipped with surface mounted vertical rod exit devices and concealed vertical rod exit devices with surface mounted triggers and strikes. Activating either door unlocks both doors.


101T


1511T



How to Specify

Model

Tone,Verbal and Digital Annunciation		Tone and LED Annunciation	
101S	Single	**1511S**	Single
101D	Double	**1512D**	Double
101T	Tandem	**1511T**	Tandem

Operation

Standard Operation
NA NFPA, UBC, SBC, IBC, IFC Compliant
Field adjustable 15 or 30 second exit delay and 0, 1, 2, or 3 second nuisance delay. Factory set, non-adjustable exit and nuisance delay must be specified in writing.

Optional Operation
BD BOCA, 15 second exit delay
BH BOCA, 30 second exit delay

CD Chicago, 15 second exit delay
CH Chicago, 30 second exit delay

ME MEA, N.Y., 0 second exit delay

Built-In Reset and Control

Standard
K Built-in Key Switch.
Provides 1-45 second **timed bypass, sustained bypass** and **alarm reset.**
Built-in reset not available with BOCA and Chicago operation.

Optional (in lieu of K)
P Built-in Reset Push Switch
Available with NFPA (NA) only

L Less Key or Push switch
(no price deduction)

Finish

Anodized Finishes
V 628 Clear Aluminum (standard)
X 313 Dark Bronze
Y 335 Black

Plated Finishes
C 605 Bright Brass
D 606 Dull Brass
F 611 Bright Bronze
G 612 Dull Bronze
P 625 Bright Chrome
Q 626 Dull Chrome

Standard Specification Examples
101S NA K V
1511S NA K V

Optional Specification Examples
101S BD K C
1511S CD L C

Options

DPS Door Position Status
The concealed DPS provides remote monitoring of the door open or closed status. This output is commonly used to alert personnel at a remote location if the door has actually been opened for egress after alarm activation.

BA Magnetic Bond Alert Sensor
The BA magnetic Bond Alert Sensor provides remote monitoring of proper and improper armature contact, due to reduced holding power, tampering, dirt or foreign material between the electromagnet and armature.

ATS Anti - Tamper Switch
The anti-tamper switch detects and provides remote monitoring of any attempt to remove the access cover.

VI Custom Verbal Instruction
A special verbal message may be specified for the 101S / D / T to meet specific application needs.

- Specify a specific message
- Specify two alternating languages

Consult factory for specification criteria.

DT Special / Reduced Delay Time
Subject to approval by the authority having jurisdiction (AHJ), a 5, 8 or 10 second exit delay time may be specified.

Electrical Specifications

Input Voltage: Dual Voltage
12 VDC ± 10%
24 VDC ± 10%

Power Consumption:

101S 890 mA @12VDC
570 mA @ 24VDC

101T 1.56 Amp @ 12 VDC
920 mA @ 24 VDC

101D 1.56 Amp @12VDC
920 mA @ 24VDC

1511S 820 mA @ 12VDC
500 mA @ 24VDC

1511T 1.5 Amp @ 12VDC
850 mA @ 24VDC

1512D 1.5 Amp @ 12VDC
850 mA @ 24VDC

Inputs
Request to Exit: Normally open, dry

Fire Alarm Release: Alarm panel closed dry contact. Opening of contact releases lock.

Monitoring Outputs
Alarm Output:
SPDT Dry, 1 Amp @ 30VDC

Lock Secure Unlocked Output:
SPDT Dry, 1 Amp @ 30VDC

DPS Door Position Status: (option)
SPDT Dry, 250 mA @ 30VDC

BAS Magnetic Bond Status: (option)
SPDT Dry, 250 mA @ 30VDC

ATS Anti Tamper Sensor: (option)
SPDT Dry, 1 Amp @ 30VDC

Mechanical Specifications

Dimensions:

Single: 11" L x 2.75" H x 2.625" D
(279 L x 70 H x 67 D mm)

Double: 22" L x 2.75" H x 2.625" D
(558 L x 70 H x 67 D mm)

Tandem:

Master: 11" L x 2.75" H x 2.625" D
(279 L x 70 H x 67 D)

Slave: 11" L x 2.75" H x 1.5" D
(279 L x 70 H x x 38 D mm)

Armature: 7.375" L x 2.375" H x .5625" D
(187 L x 60 H x 14 D mm)

Sign: 13" L x 4.5" H
(330 L x 114 H mm)

Advanced Electromagnetic Core Design

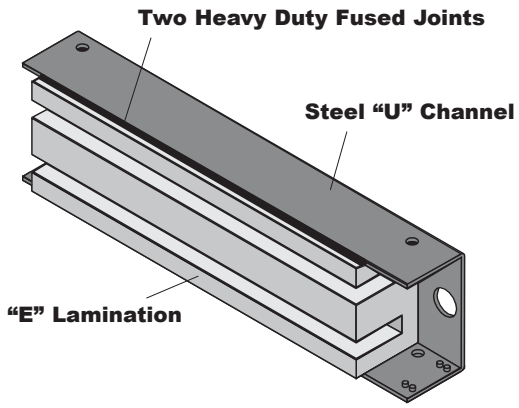
Exclusive to SDC, the fully stabilized electromagnetic lock core is the most significant technological breakthrough in years. Patented.

Metal Fusion and Patented "U" Channel Design. The electromagnetic steel lamination is cradled and fused with the heavy gauge steel "U" channel, stabilizing the resulting electromagnetic force when energized. In addition, the potential for tweaked or separated lamination is eliminated while applied stress is stabilized evenly throughout the electromagnetic core. Emlocks may be repeatedly stressed to the breaking point without reduction of holding force.

Non-Toxic Epoxy-Less Design. An inherent benefit to the "U" channel design is the elimination of epoxy. The potential for toxic fumes in a fire is eliminated. A truly complete architectural appearance is provided.

Positive Pressure Testing. SDC electromagnetic locks do not require positive pressure testing due to the elimination of epoxy.

SDC Electromagnetic Core

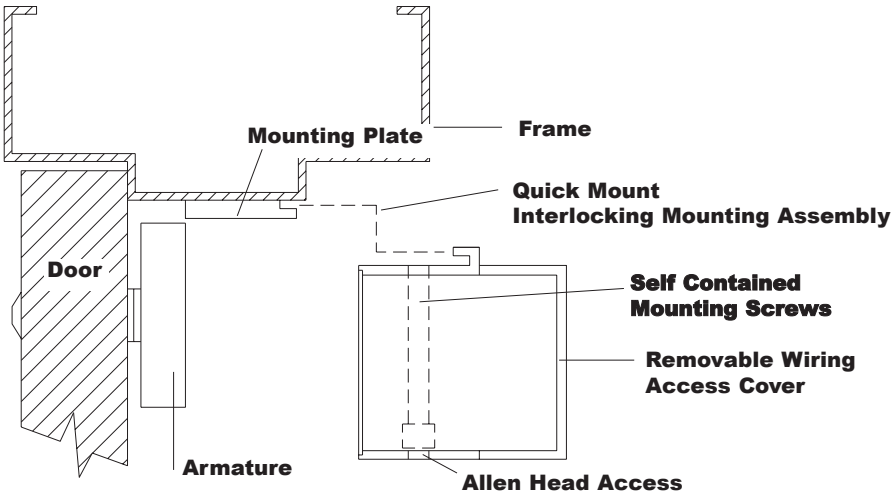


Installation Features

Quick & Easy Mounting Assembly
The interlocking feature provides a means of positive attachment of the lock to the mounting plate. First, the interlocking feature holds the lock in place, and the self-contained mounting screws are then tightened.

Increased Mounting Strength
With pressure applied, the interlocking mounting feature absorbs and stabilizes the applied force and alleviates pressure on the mounting screws. In addition, all mounting screws are strategically placed to provide maximum strength. Mounting integrity is therefore significantly increased.

Fig. 2A



Serviceability Features

The replacement of a delayed egress lock can be expensive and SDC has engineered the Exit Check® with serviceability in mind.

The Exit Check® is the only delayed egress lock available with all field replaceable components. The printed circuit terminal boards and internal coil winding are replaceable without removing the steel core and housing from the frame. No other product on the market is capable of this complete serviceability. Should the need ever arise, considerable expense is saved in parts and labor.

Armature and Adjustable Trigger Mounting Detail

Fig. 3a
End View

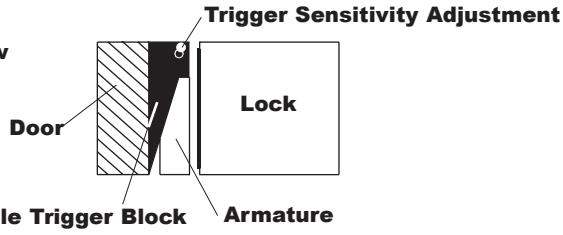
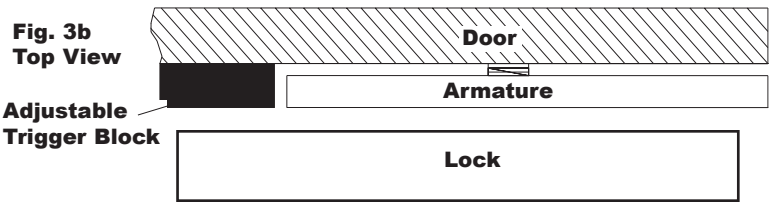


Fig. 3b
Top View



Mounting Detail

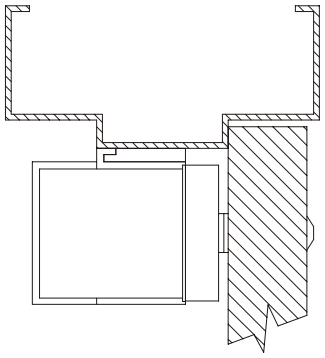


Fig.1A Standard Mounting

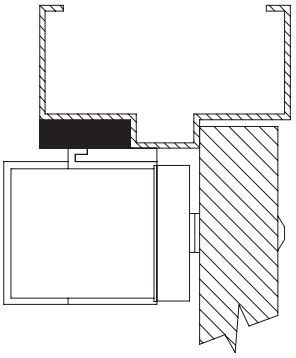


Fig. 1B With Filler Plate
Refer to Filler Plates and Angle Bracket datasheet for proper filler plate specification.

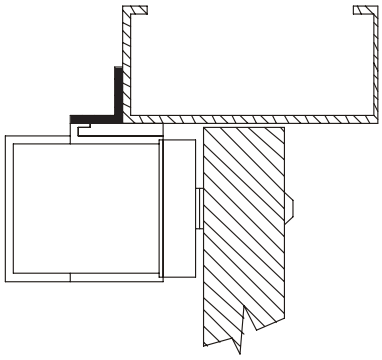
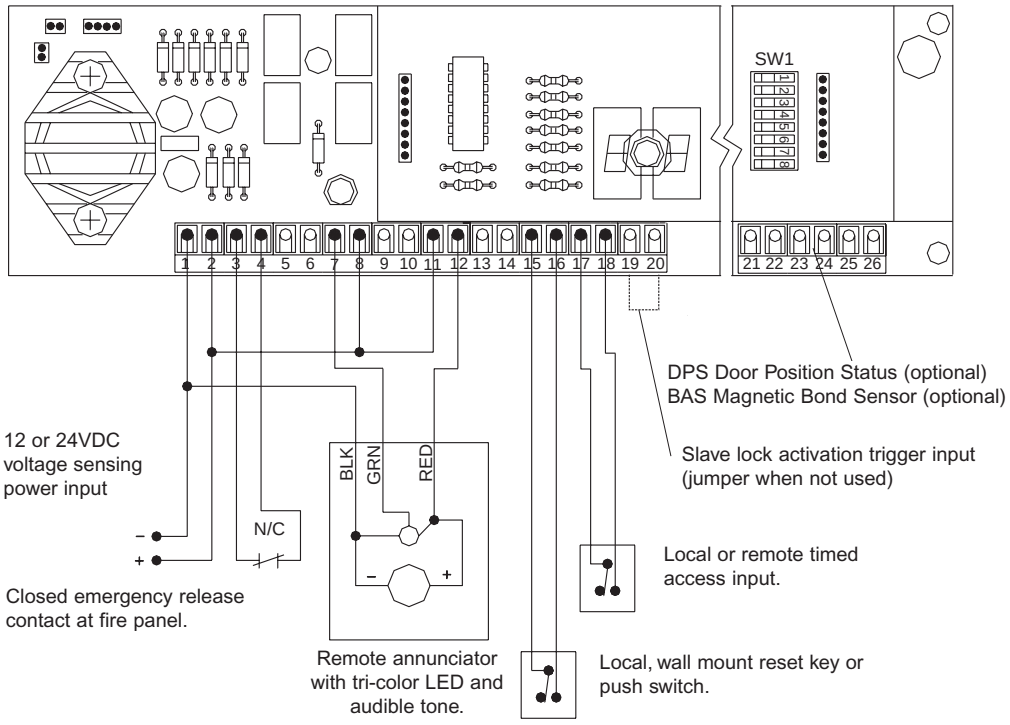
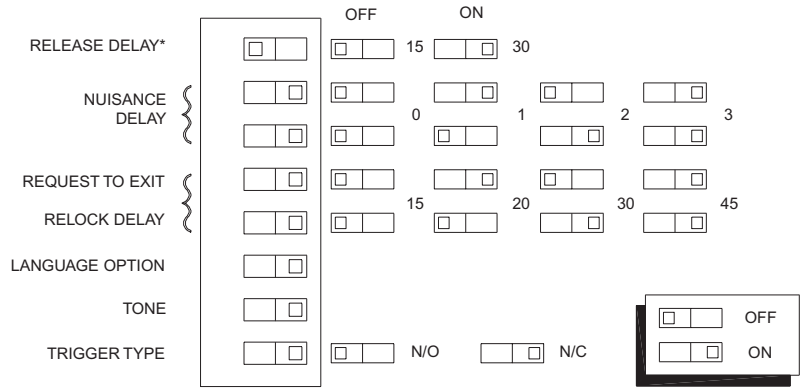


Fig. 1C With Angle Bracket
Refer to Filler Plates and Angle Bracket datasheet for proper angle bracket specification.



TERMINAL BOARD CONNECTIONS		
1 2	POWER IN- POWER IN+	12 VDC OR 24 VDC
3 4	FIRE PANEL FIRE PANEL	TO N/C FIRE CONTACT
5 6	AUX LOCK- AUX LOCK+	SLAVE LOCK COIL TERMINALS
7 8 9	N/C COM N/O	LOCK SECURE OUTPUT
10 11 12	N/C COM N/O	ALARM OUTPUT
13 14	N/O COM	EXTERNAL TRIGGER SWITCH INPUT
15 16	N/O COM	RESET SWITCH INPUT
17 18	N/O COM	REQUEST TO EXIT INPUT
19 20	SLAVE TRIGGER INPUT (JUMPER WHEN NOT USED)	
MONITORING OPTIONS		
21 22 23	N/C COM N/O	BOND ALERT (BAS)
24 25 26	N/C COM N/O	DOOR POSITION SWITCH (DPS)

DIP SWITCH SETTINGS



WARNING!
***Contact authority having jurisdiction for approval prior to selecting delay time.**

Sure Exit
Request-to Exit Push Bar

The Sure Exit is a non-latching, heavy duty, request-to-exit push bar that will activate the Exit Check® when slight pressure is applied to the bar.

Applying pressure to the bar actuates either or both of the solid state pressure sensors that signal the Exit Check® trigger input, activating delayed egress operation. If the solid state electronics should fail, a third switch automatically activates, providing uninhibited operation. The third emergency release switch operates automatically and does not require prior knowledge to find and operate.

- Stable, Reliable Pressure Sense Technology
- Tri Failsafe
- No Moving Parts
- Rugged Construction
- Power Transfer Loop Included

Model
PSB560V Aluminum Anodized
PSB560X Dark Bronze Anodized
PSB560Y Black Anodized

Stainless steel and brass optional 36" is standard. For wider doors specify 42" or 48". May be field cut.

Electrical Specifications

Voltage Input: 12/24VDC

Current Input:
20 mA at rest, 115 mA active

Output:
Two, SPDT Dry, 3 Amp @ 28VDC

Operating Temperature: 0° - 150° F

Mechanical Specifications

Height: 2.375"
Projection: 1.875"

Activation Force: 5 lbs. to 15lbs.

Stations Controls and Annunciators

While the Exit Check® is equipped with a standard built-in key switch for reset and bypass functions, waist-level wall mounted stations provide for convenient alarm reset, sustained bypass or timed bypass.

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 identified by one tri-color LED that identifies specific mode status.

Secure - Green
Activation - Amber x Audible Alarm
Unlocked - Red x Audible Alarm

402A

702-6R

707-6R

402A Alarm Reset Push Switch

702-6R Alarm Reset Key Switch

707-6R Two Function Key Switch
Alarm Reset and Sustained Bypass

101-1A
Single Station Annunciator
The single station annunciator is equipped with a tri-color LED and audible alarm.

101-PAM
Single Station Annunciator and 3 Function Control
Visual and audible annunciation, timed access, sustained bypass, and audible mute.

101-AK
Single Station Annunciator with Key Control
Visual and audible annunciation and a two function key switch for alarm reset and sustained bypass.

101-4AM
Four Station Annunciator
Provides visual and audible annunciation with audible mute for two, three or four openings.

Control / Annunciator Consoles
Desk Top and Rack Mount

SDC control and annunciator panels provide remote annunciation of multiple openings. Stations are specified in sets of four. Control switches are also available and capable of providing both sustained bypass and timed unlocking of individual doors. Consult the factory or refer to SDC control console datasheets for additional specifications.

TCC Desk Top
Stations: 4, 8 & 12

RCC
Rack Mount
Stations:
4 - 20

CAB Desk Top Cabinet
CAB7: Accommodates 1 RCC
CAB12: Accommodates 2 RCC

SECURITY DOOR CONTROLS
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