ADVANCED ALARM TECHNOLOGIES

BID FOR DELAYED EGRESS DOOR LOCK SYSTEM FOR KENNETH HONEY RUBENSTEIN JUVENILE CENTER

RFQ # DJS010335

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (***West Virginia Code*** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Advanced Alarm Technologies

Authorized Signature: _____ Date: 6/16/11

State of West Virginia

County of Wood, to-wit:

Taken, subscribed, and sworn to before me this 16th day of June, 2011.

My Commission expires September 28, 2019 20__.

AFFIX SEAL HERE

NOTARY PUBLIC Samalla K Roberts

Official Seal
Notary Public, State of West Virginia
Samalla K. Roberts
United Bank
514 Market Street
Parkersburg, WV 26101
My Commission Expires September 28, 2019

Rev. 09/08

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with ***West Virginia Code***, §5A-3-37. (Does not apply to construction contracts). ***West Virginia Code***, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the ***West Virginia Code***. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**
___ Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or,**
X Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or,**
___ Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or,**

2. X **Application is made for 2.5% resident vendor preference for the reason checked:**
Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or,**

3. **Application is made for 2.5% resident vendor preference for the reason checked:**
___ Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or,**

4. X **Application is made for 5% resident vendor preference for the reason checked:**
Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or,**

5 **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
___ Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or,**

6. X **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Advanced Alarm Technologies **Signed:** Robert H Hiel

Date: 6/14/11 **Title:** President

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
DJS010335	5

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE
304-558-2544

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DIVISION OF JUVENILE SERVICES
KENNETH HONEY RUBENSTEIN
JUVENILE CENTER
141 FORESTRY CAMP ROAD
DAVIS, WV
26260 304-259-2220

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/19/2011				

BID OPENING DATE: 06/23/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER:----------TL/32----------
RFQ. NO.:----------DJS010335----------
BID OPENING DATE:-------06/23/2011----------
BID OPENING TIME:-------1:30 PM----------

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

---------- (304) 422-4387 ----------

CONTACT PERSON (PLEASE PRINT CLEARLY):

---------- Robert Hill ----------

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

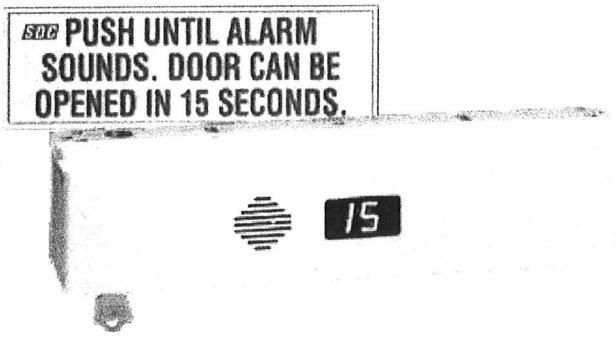
SIGNATURE	TELEPHONE	DATE
Robert A Hill	(304) 422-4387	6/14/11
TITLE: President	FEIN: 20-2085989	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

Exit Check® Integrated Delayed Egress Locks

Exit Check® Delayed Egress Lock Proprietary Features:

- *Voice and digital display provides informative annunciation for people without prior knowledge, including the blind and hearing impaired*
- *Field selectable voice & tone or tone only*
- *Voice provides warning or safety message, countdown and time of door release*
- *Digital countdown display also indicates if door was open after lock release.*
- *Fixed 15 second delay or selectable 15 or 30 second exit delay*



Application

Airport & Public Facility Security & Safety
Control pedestrian traffic in government, public facilities and transportation facilities, including airport jetways and tarmacs.

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

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.

Operation
Typically used on exit doors, when unauthorized egress is initiated when in the locked mode, the SDC Exit Check® delays 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.

Code Compliance

Exit Check® models comply with todays building and fire life safety codes.
See page 4

IBC, International Building Code
1008.1.8.6 Delayed Egress Locks

IFC, International Fire Code
1008.1.8.6 Delayed Egress Locks

NFPA 101, Life Safety Code
7-2.1.6.1 Delayed Egress Lock

CBC, California Building Code
1008.1.8.6 Special Egress Control Devices

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

Patient & Infant Tracking Systems

The SDC Exit Check® 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.

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.

Local Approval

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

Facility Applications

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

c UL us LISTED
FWAX Special Locking Arrangements
GWXT Auxiliary Locks

UL10C Positive Pressure Compliant
UBC Classified in accordance with Uniform Building Code standard 7-2 "Fire Test for Door Assemblies"

MADE IN THE USA

3774-0324:103
California State
Fire Marshall Listed

BHMA CERTIFIED
ANSI/BHMA A156.24
Grade 1
American National Standard
for Delayed Egress Locks

Protected by one or more of the following U.S. Patents:
5,429,399 4,609,910

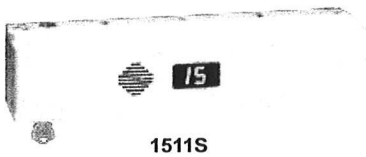
sdcsecurity.com service@sdcsecurity.com

BSI ISO 9001 FM 52705

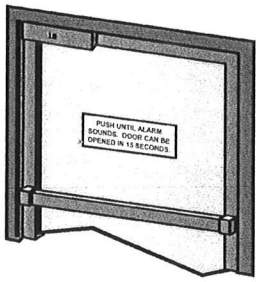
Single Model

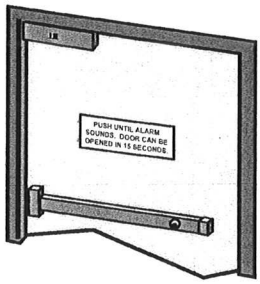
For use with single doors equipped with:

- Mortise or rim mount exit devices
- Surface or concealed vertical rod exit devices with surface or concealed strikes and triggers
- Mortise or cylindrical locksets



1511S

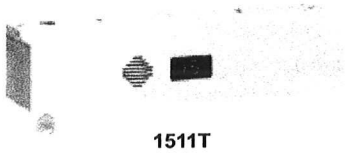




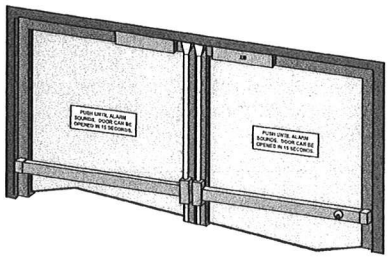
Tandem Model

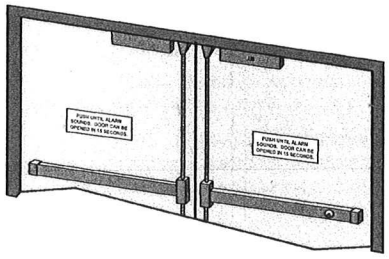
Activating either door unlocks both doors.
For use with pairs of doors equipped with:

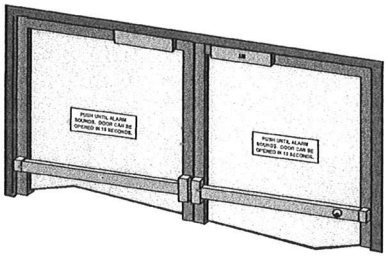
- Mortise or rim mount exit devices
- Surface or concealed vertical rod exit devices with surface or concealed strikes and triggers
- Mortise or cylindrical locksets



1511T







Code Compliant Door Sign

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

Verbal and Digital Annunciation

The Exit Check® series incorporates an alternating verbal message, verbal countdown and alarm tone, plus a large digital countdown display and door release indicator that provides a clear warning for the safety of persons without prior knowledge of door operation, including the blind and hearing impaired.

Features

- Field selectable voice message and alarm tone, or alarm tone only, 75 db @ 3 ft
- The visual display provides a digital countdown, indicates lock release and verifies if the door was opened for egress.
- Choice of fixed 15 second exit and 1 second nuisance delay or field selectable 15 or 30 second exit delay and 1 or 2 second nuisance delay
- Field selectable security or safety message
- Field selectable activation:
  Door movement
  Exit device with switch kit
  Exit sense bar for non-latching doors
- Field selectable automatic or manual power up after emergency release or power loss.
- Integrated 3 position key switch provides:
  Lock and alarm reset
  Manual power-up*
  Sustained bypass
  Timed bypass, adj. for 1, 15, 20 or 30 seconds
- Field selectable door prop alarm:
  Alarm sounds when door is left open after selected bypass time has elapsed.
- Anti-tailgate feature
- Single or multi-door zone control and reset capability

Control Inputs

- Remote access control and REX input, field adjustable for 1,15, 20 or 30 seconds
- Remote reset input
- Manual power-up input*
- Emergency release input
- Anti-tailgate input

Monitoring Outputs

- Door secure and unlocked output
- Delayed egress activation alarm output

Options

- Custom message, language or shortened exit delay times
- Energy Saver, 1200lb holding force 400/275mA @ 12/24VDC
- Magnetic Bond Sensor output
- Door Status Sensor output
- Anti-tamper sensor output

* Not available with (BD) Chicago and BOCA code compliant models

Self Adjusting Door Movement Sensor

The built-in door movement sensor may only be used with doors equipped with a latch assembly, such as a 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. The self adjusting sensor helps prevent false triggering.

External Device Trigger Input

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 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.

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.

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

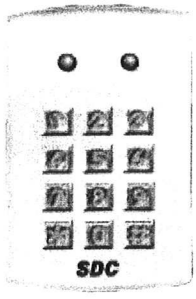
Automatic or Manual Power-up

Field selectable method of lock power-up, automatic or manual, after power loss or emergency release.

Auto Power-Up
When selected, regardless of the means of deactivation, relocking of the Exit Check® 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 Exit Check® is by manual means only at the door. Only after power restoration and/or fire life safety panel reset, the door may be relocked by actuating the standard built-in key reset or optional wall mounted key switch, push switch or digital keypad located adjacent to the door.

Keyless Control (optional)



928 Entry Check Digital Keypad
While the Exit Check® is equipped with a standard built-in 4 function key switch for reset, manual power up, momentary bypass and sustained bypass functions, the SDC 928 wall mounted keypad provides the convenience of keyless operation for:

- Alarm Reset
- Manual Power-Up (UBC & California required)
- Momentary or Sustained Bypass

Electrical Specifications

Input Voltage: Dual voltage Sensing 12/24 VDC ± 10%

Standard 1650lbs Holding Force

1511S	830mA @ 12VDC
	450mA @ 24VDC
1511T	1500mA @ 12VDC
	850mA @ 24VDC

Energy Saver 1200lbs Holding Force

1511S	400mA @ 12VDC
(E option)	275mA @ 24VDC
1511T	650mA @ 12VDC
(E option)	400mA @ 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: *(optional)*
SPDT Dry, 250 mA @ 30VDC

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

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

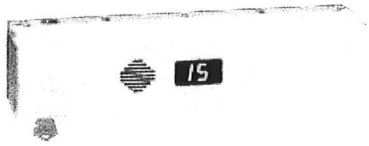
Mechanical Specifications

BHMA Certified ANSI Grade 1
Holding Force
- 1650lbs 1511S
- 1200lbs 1511S Energy Saver

Single:	11"L x 2-3/4"H x 2-5/8"D (279 x 70 x 67mm)
Tandem:	
Master:	11"L x 2-3/4"H x 2-5/8"D (279 x 70 x 67mm)
Slave:	11"L x 2-3/4"H x 2-5/8"D (279 x 70 x 67mm)
Armature:	7-3/8"L x 2-3/8"H x 9/16"D (187 x 60 x 14mm)

Single or Tandem

Models are available to accommodate single and pairs of doors. See page 2 for proper application.



S (Single)

T (Tandem)

Mounting Detail

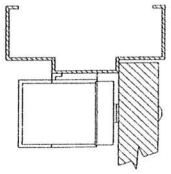


Fig.1A Standard Mounting

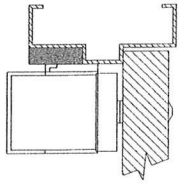


Fig. 1B With Filler Plate
Refer to Filler Plates and Angle Bracket datasheet for proper filler plate specification.

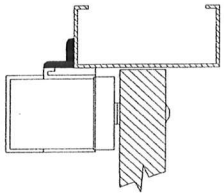


Fig. 1C With Angle Bracket
Refer to Filler Plates and Angle Bracket datasheet for proper angle bracket specification.

Code Compliance

► NFPA 101 ►IBC ►IFC

Standard Models

1511S NA K V Single, Adj 15/30, Aluminum
1511T NA K V Tandem, Adj 15/30, Aluminum

Operation

NA Operation

1) When the door is closed, latched, and the lock is energized, field selectable "15" or "30" is displayed, indicating the door is secure.

2) Applying pressure and retracting the door latch activates a warning tone and digital display countdown. If the door is released in 1 or 2 seconds, the warning tone stops and the door stays locked.

Non Latching Glass Doors: Activation by PSB560 Exit Sense Bar (see page 6)

3) When activation exceeds the nuisance time (1 or 2 seconds) an irreversible process begins that will unlock the door in 13 or 14 seconds. The voice message, tone and countdown annunciation continue.

MALE VOICE WITH SECURITY MESSAGE
Tone.... "Exit in twelve seconds, Security has been alerted"
Tone.... "Exit in five seconds"
Tone.... "Exit now", Tone...."Exit now"

FEMALE VOICE WITH SAFETY MESSAGE
Tone.... "Exit in twelve seconds, Facility Staff has been alerted"
Tone.... "Exit in five seconds"
Tone.... "Exit now", Tone...."Exit now"

TONE ONLY (In Lieu of Message)
Activation: Short beeps
Lock Release: Long beeps

4) The door unlocks when delay time has elapsed and the digital display indicates "00" and annunciation continues.

5) The lock is manually reset by built-in key (K) or optional wall mount keypad or kewswitch (page 6)

6) The door will unlock upon signal from the fire life safety system or power loss.
Auto Power-Up: Lock will re-arm automatically when power is restored and fire alarm system is rest.
Manual Power Up: Lock is re-armed by manual means only at the door by key reset (K) or optional wall mounted reset keypad or keyswitch (page 6)

Code Compliance

► **California Building Code**
► NFPA 101 ►IBC ►IFC

Standard Models

1511S ND K V Single, 15 Fixed, Aluminum
1511T ND K V Tandem, 15 Fixed, Aluminum

Operation

ND Operation

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

2) Applying pressure and retracting the door latch activates a warning tone and digital display countdown. If the door is released in 1 second, the warning tone stops and the door stays locked.

Non-Latching Glass doors: Activation by PSB560 Exit Sense Bar (see page 6)

3) When activation exceeds the nuisance time of 1 second an irreversible process begins that will unlock the door in 14 seconds. The voice message, tone and countdown annunciation continue.

MALE VOICE WITH SECURITY MESSAGE
Tone.... "Exit in twelve seconds, Security has been alerted"
Tone.... "Exit in five seconds"
Tone.... "Exit now", Tone...."Exit now"

FEMALE VOICE WITH SAFETY MESSAGE
Tone.... "Exit in twelve seconds, Facility Staff has been alerted"
Tone.... "Exit in five seconds"
Tone.... "Exit now", Tone...."Exit now"

TONE ONLY (In Lieu of Message)
Activation: Short beeps
Lock Release: Long beeps

4) The door unlocks when 15 seconds has elapsed, the digital display indicates "00" and annunciation continues.

5) The lock is manually reset by the built-in key (K) or optional wall mounted keypad or keyswitch (page 6).

6) The door will unlock upon signal from the fire life safety system or power loss.
Auto Power-Up: Lock will re-arm automatically when power is restored and fire alarm system is reset
Manual Power-Up: Per California Building Code, lock is re-armed by manual means at the door by key reset (K) or optional wall mounted reset keypad or keyswitch (page 6)

Code Compliance

► **BOCA, National Building Code**
► **Chicago Building Code**

Standard Models

1511S	**BD**	**K**	**V**	Single
1511T	**BD**	**K**	**V**	Tandem

Operation

BD Operation

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

2) Applying pressure and retracting the door latch activates a warning tone and digital display countdown. If the door is released in 1 second, the warning tone stops and the door stays locked.

Non-Latching Glass doors: Activation by PSB560 Exit Sense Bar (see page 6)

3) When activation exceeds 1 second, an irreversible process begins that will unlock the door in 14 seconds. The voice message, tone and countdown annunciation continue.

MALE VOICE WITH SECURITY MESSAGE
Tone...."Exit in twelve seconds, Security has been alerted"
Tone...."Exit in five seconds"
Tone...."Exit now", Tone...."Exit now"

FEMALE VOICE WITH SAFETY MESSAGE
Tone...."Exit in twelve seconds, Facility Staff has been alerted"
Tone...."Exit in five seconds"
Tone...."Exit now", Tone...."Exit now"

TONE ONLY (In Lieu of Message)
Activation: Short beeps
Lock Release: Long beeps

4) The door unlocks when 15 seconds has elapsed, the digital display indicates "00" and annunciation continues.

5) The door must be opened and then closed for 30 seconds before the lock automatically re-locks and annunciation stops. Reopening of the door before the end of the 30 second re-locking cycle will restart the 30 second re-locking cycle. Manual reset not available.

6) Built-in key (K) or optional wall mounted keypad or keyswitch (page 6) provide timed or maintained bypass.

7) The door will unlock upon signal from the fire life safety system or power loss.

Ordering Information

Model

1511S	Single
1511T	Tandem

Operation Mode

NA **NFPA 101, IBC and IFC Compliant**
- Field selectable:
  15 or 30 second exit delay
  1 or 2 second nuisance delay
- Field selectable automatic or manual power-up after emergency release

ND **California Building Code** (OSHPD*), **NFPA 101, IBC & IFC Compliant**
- Fixed 15 second exit delay
- Fixed 1 second nuisance delay
- Field selectable automatic or manual power-up after power loss or emergency release.

* Office of Statewide Health Planning and Development. All California health and care facilities require inspection by OSHPD certified building inspectors

BD ► **BOCA, National Building Code**
► **Chicago Building Code**
- 15 second fixed exit delay
- 1 second nuisance delay
- Auto reset 30 seconds after door closure. Auto reset is retriggered if door opens before 30 seconds has elapsed.
- 45 seconds when AHJ approved

Built in Reset and Control

K Built in key switch. Provides 1-30 second timed bypass, sustained bypass and alarm reset *(standard)*. Built in reset not available with BOCA and Chicago (BD) operation.

P Built in reset push switch. Available with NFPA (NA) only.

L Less key or push switch

Finish

Anodized Finishes

V	628 Aluminum *(standard)*
X	313 Dark Bronze
Y	335 Black

Special Plated Finishes

C	605 Bright Brass
D	606 Dull Brass
P	625 Bright Chrome
Q	626 Dull Chrome

Options

E **Energy Saver**
1200 lbs holding force, low power consumption, only 275mA @ 24VDC. *See page 3 for full electrical specifications*

D **Door Position Status**
Provides remote monitoring of the door open or closed status and indicates the door has actually been opened for egress after alarm activation. *(Specify 2 for tandem)*

B **Magnetic Bond Alert Sensor**
Indicates locked with full holding power or unlocked, reduced holding power, tampering or foreign material between the electromagnet and armature.
(Specify 2 for tandem)

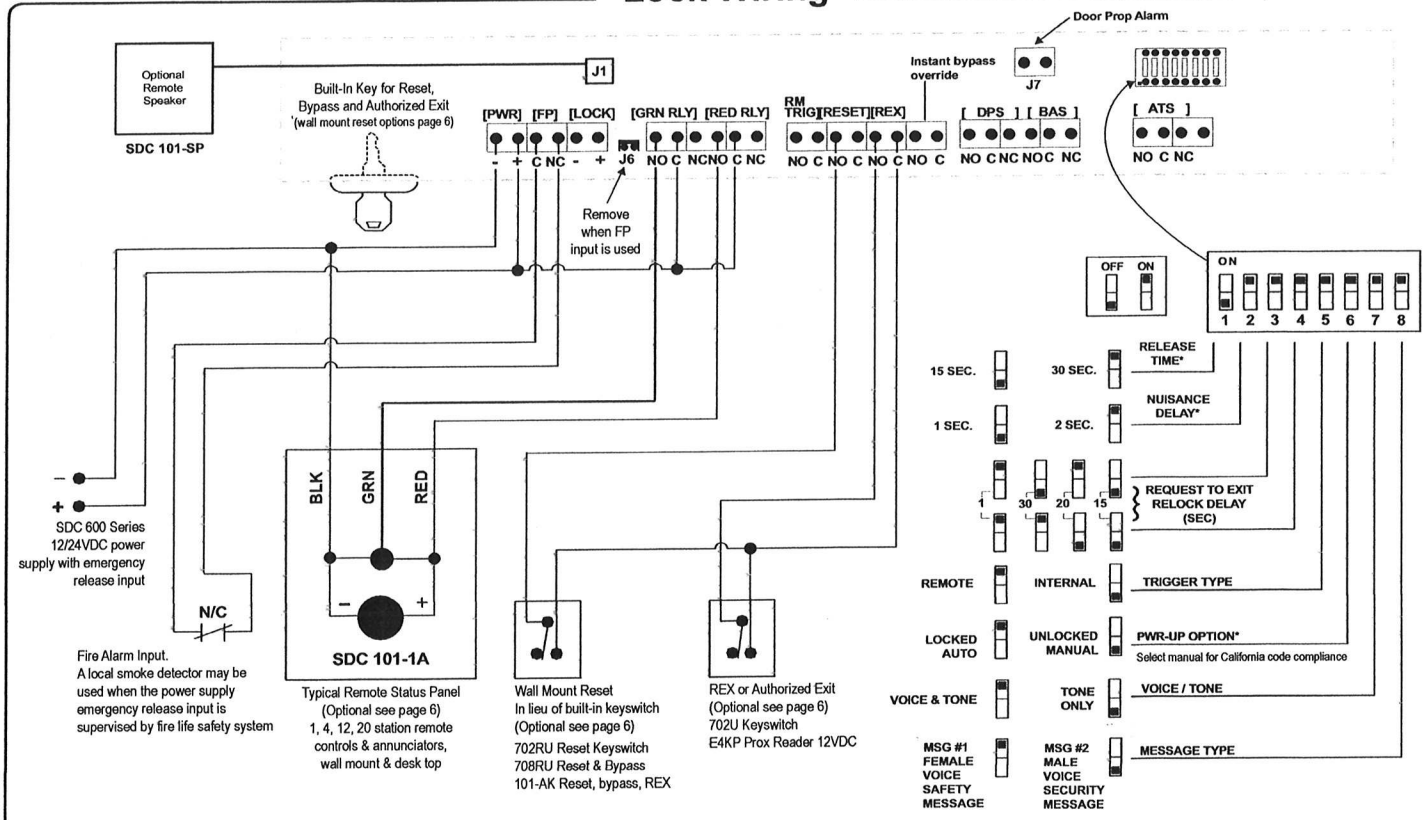
A **Anti-tamper Switch**
Detects attempt to remove the access cover. *(Specify 2 for tandem)*

VI **One Language or Bilingual**
Spanish, or English and Spanish, verbal notification.

VIC **Custom Verbal Announcement**
(10 piece purchase minimum) POA

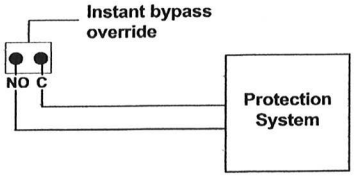
101-SP **External 15 Watt Speaker**
Connects directly to 1511S or 1511T for enhanced decibels of onsite or remote voice message annunciation. Speaker driver may be provided by others for extreme decibel requirements

Lock Wiring



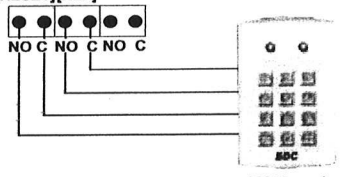
Infant and Pediatric Protection & Wandering Patient System Application

The Exit Check is unlocked when in maintained bypass or momentary bypass (access/REX) mode. When a tagged patient walks near or infant carried towards the door protection system sends a signal to the Exit Check®, locking the door immediately. Should a person then initiate unauthorized egress, the Exit Check® will provide voice and tone annunciation and delay egress for 15 or 30 seconds.



Keypad In Lieu of Built-In Keyswitch

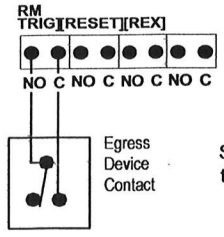
Eliminates Problem of Lost Keys, Easy To Reach for Reset, Bypass And Authorized Exit. See 928 keypad page 6. **Note:** Contact SDC for Wiring instructions



928 Keypad

Egress Bar & Exit Device Trigger

PSB560, MSB550 non-latching bars
Exit Bar Switch Kits for latching exit devices



Note:
Set DIP switch No. 5 to "Remote" position

Terminal Board Connections								Monitoring Options		
POWER IN	FP	AUX LOCK OUTPUT	GRN RLY	RED RLY	REMOTE	RESET	REX	INSTANT BYPASS OVERIDE	DPS	BAS	ATS
- +	C NC	- +	NO C NC	NO C NC	NO C	NO C	NO C	NO C	NO C NC	NO C NC	NO C NC
AUTO SENSING 12/24 VDC INPUT	TO CLOSED FIRE CONTACT (REMOVE J6 WHEN USED)	SLAVE / TANDEM LOCK CONTROL OUTPUT	LOCK SECURE OUTPUT	ALARM OUTPUT	EXTERNAL TRIGGER SWITCH INPUT	EXTERNAL RESET SWITCH INPUT	REQUEST TO EXIT INPUT	INSTANT LOCKING FEATURE	DOOR POSITION OUTPUT	MAGNETIC BOND ALERT OUTPUT	ANTI TAMPER OUTPUT

SECURITY DOOR CONTROLS
www.sdcsecurity.com service@sdcsecurity.com
[t] 800.413.8783 805.494.0622 [f] 805.494.8861
801 Avenida Acaso, Camarillo CA 93012 • PO Box 3670, Camarillo CA 93011-3670

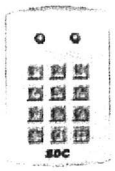
 Printed in China LIT-1511SDelayedEgress 9/09

Station Controls and Annunciators

While the Exit Check® is equipped with a standard built-in key switch for reset and bypass functions, 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 Tone
Unlocked - Red x Audible Tone



928

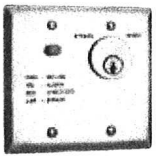
702RU

708RU

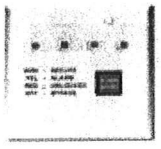
928 Keypad *(see page 3)*
702RU Alarm Reset & Manual Power-Up Key Switch
708RU Alarm Reset, Manual Power Up & Bypass Key Switch

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

101-PAM
Visual and audible annunciation, timed access, sustained bypass, and audible mute.



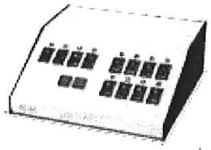
101-AK
Visual and audible annunciation and key switch for alarm reset, manual power up and sustained bypass.



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

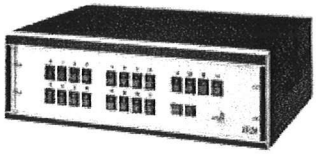
Consoles, Desktop and Rack Mount

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

Latch Strikes Trigger

MS-16 For mortise latch, reversible

- Fits 4.875" Strike (provided by others)
- Gap & alignment adj.
- SPDT, 5 Amps @ 30VDC

Power Transfer Loops

PT-2U Stainless Steel
PT-3V Aluminum termination box

PTH Power Transfer Hinge

PTH-4Q Four wires:

- 1 pair-1 Amp; 1 pair-250mA
- 4.5x4.5 five knuckle standard weight
- Dull Chrome

Sure Exit Request-to-Exit

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.

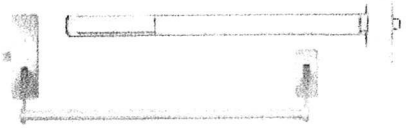
Model
PSB560V Aluminum Anodized
PSB560Y Black Anodized

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

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

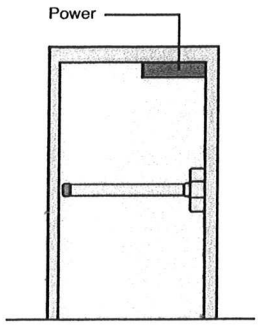
Exit Device Switch Kits

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.

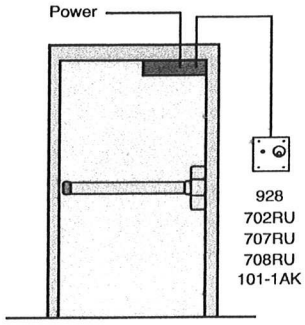


MODEL	MAKE & MODEL TO BE MODIFIED
510	Von Duprin 33, 35, 98, 99
510-2	Von Duprin 33, 35, 98, 99 DPDT
511	Von Duprin 55
512	Von Duprin 88
514	Dor-O-Matic 990, 1090, 1990, 2090
516	Sargent 9600, 9700, 9800, 9900
517	Adams Rite 8300, 8400, 8700, 8800
518	Precision Apex Series 1100
518A	Precision Apex Series 2100 - 2800
519	Jackson 1095
519-2	Jackson 1095 DPDT
521	Corbin 7000
525	Monarch 18 and 19
527	Sargent 80
527-2	Sargent 80 DPDT
528	Sargent 20/60 and Yale 2100
531	Yale 7000 (Dogging mechanism required)
535	Kawneer Mid Panel Line Dor-O-Matic 1390
540	Arrow 53/5400 series
542	Hager 4700
590	Dor-o-Matic 1690

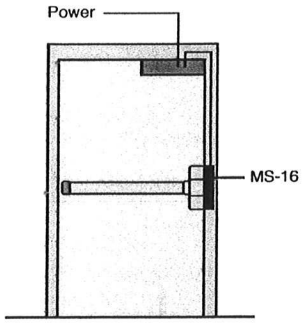
Component Considerations



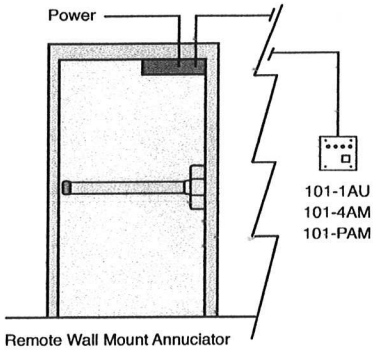
Door Movement Trigger by Latching Exit Device
Rim Mount, Mortise, or Vertical Rod



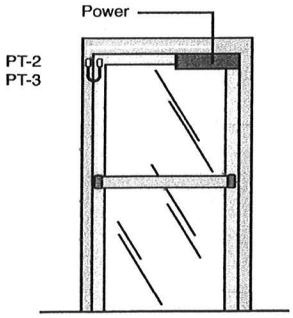
Optional Wall Mount Key Reset
(Built-In Key Reset Standard)



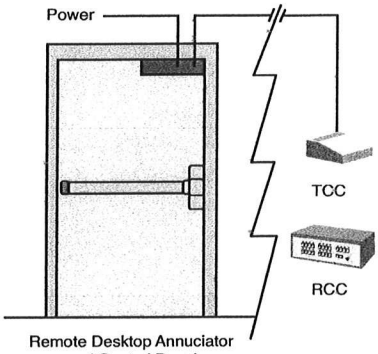
Latch Monitoring Strike Trigger
For Mortise Exit Devices or Lock



Remote Wall Mount Annuciator



Sense Bar Trigger Non-Latching
PSB560, MSB550



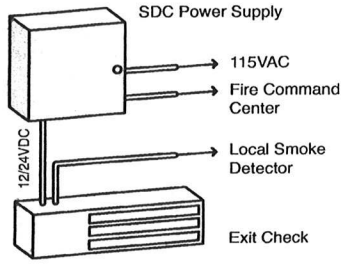
Remote Desktop Annuciator
and Control Panel

Emergency Release Modes

Dual Emergency Release

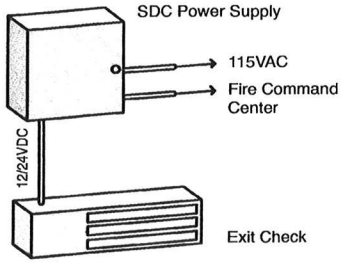
SDC 600 Series Power Supply and Integrated Lock Emergency Release

- Field Selectable Lock Auto Reset or Lock Manual Key Reset
- Field Selectable Power Supply Output
- Automatic reset standard, see *MR option for manual reset.



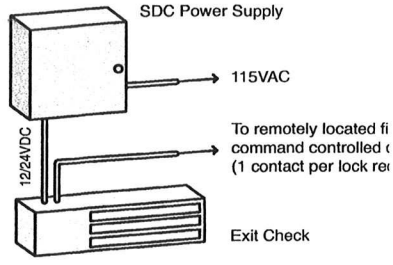
SDC 600 Series Power Supply Emergency Release

- Field Selectable Lock Auto Reset or Lock Manual Key Reset
- Field Selectable Power Supply Output
- Automatic reset standard, see *MR option for manual reset.



Integrated Lock Emergency Release

- Field Selectable Lock Auto Reset or Lock Manual Key Reset
- Field Selectable Power Supply Output
- Automatic reset standard, see *MR option for manual reset.

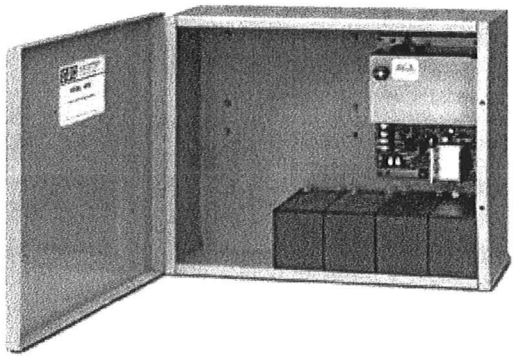


**Emergency Release Manual Reset Not Available with 631RF Power Supply*

634RF 4 Amp Power Supply

Modular Access Control Power Supply

- Field Selectable 12VDC or 24VDC Output - Standard
- Dual 12VDC and 24VDC Output - Optional



Quality, Performance and Versatility

The SDC 634RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty 4 Amp circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. Documentation is provided to ensure a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and auxiliary emergency release interface. SDC 600 Series power supplies are manufactured according to ISO 9001 - 2000 certified quality standards.

Modular Design

Ten different, individually fused door control modules are available for virtually any application. Time delays, latching relays and multiple station circuit breaker modules are available for custom configuration.

DIP Switch Select System Operation

Specification of the UR Series Access Hardware Controller provides for six standard DIP switch selectable system and mantrap variations for multiple door systems.

"Security Industry Finest"
ISC Expo

MADE IN
THE USA

UL LISTED
Access Control Power Supply - ALVY
General Purpose Power Supply - QQFU/QQFU7

Features

Filtered and Regulated
The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.

Field Selectable 12 or 24VDC
The output is field selectable for 12 or 24VDC output.

Class 2 Output
The 634RF Power Supply may be configured to use one 4 Amp output or two 2 Amp, Class 2 outputs. Where permitted by code, conduit is not required for low voltage wiring when using Class 2 outputs. The total current draw from all outputs must not exceed 4 Amps.

Battery Charger Output
A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.

LED System Status Indicator
Amber - AC and DC voltages are OK
Green - No DC output
Red - No AC input, powered by batteries

Large Heavy Gauge Enclosure
Model 634RF is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 7 Amp hour batteries with plenty of room for wiring.

Value Added Features

Emergency Release Input (Standard)
A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.

California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)
When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.

Low Battery Disconnect (Standard)
Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.

Isolated Charging Circuit (Standard)
While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage.

The secondary output current is maintained at the full 2 Amp capacity and is not de-rated when charging batteries.

Model

634RF 4 Amp Power Supply
One 4 Amp output and two
2 Amp Class 2 outputs standard

Options

MR-1 Push switch for manual reset of emergency release and AC power loss. California state compliant (CSFM). Consult your local Authority Having Jurisdiction (AHJ) for reset requirements.
(See description page 1)

KL Key locked cover.

14-2 7-day skip-a-day timer.

PS-1 On-Off Push switch in cabinet.

PS-1A On-Off Push switch on cover.

230V 220/230VAC, 50/60/HZ input.

RB12V7

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure.
See Table 2 & 3 to determine battery requirements for standby power.

RB12V7 12VDC, 7 Amp Hour Battery
634RF 6 max.

Specifications

Specify model, options, modules and batteries.
Example:
634RF x KL x 2 CR-4 x 6 RB12V7
634RF x PS-1 x 4 PTC4-075 x 6 RB12V7

Specifications

Input:
1 Amp @115VAC 50/60 Hz
(230VAC 50/60Hz optional, not UL listed)

Input Protection:
1 Amp, manually resetable circuit breaker

Selectable Secondary Output:
One, 4 Amp @ 12VDC or 24VDC or
Two, Class 2, 2 Amp @12VDC or 24VDC

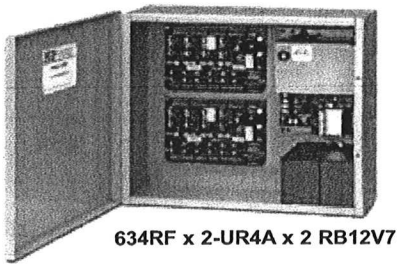
Output Protection:
Auto resetting Poly Fuse per output

Battery Charger Output:
500 mA @ 13.5 or 27VDC

Battery Charger Protection:
Auto resetting Poly Fuse

Dimensions: 16" W x 14" H x 6.5" D
(406 W x 355 H x 165 D mm)

Material: 16 gauge (1.52 mm) steel



634RF x 2-UR4A x 2 RB12V7

Table 1: Control Module Capacity *

Power Supply:	634RF	
Battery Qty.	0-2	3-6
	RB12V7	
FB4	8	4
12VR	4	4
PSM	1	1
UR-2A, UR-4A	2	1
TD	8	4
CR	8	4
CR-4	4	2
ACM-1	4	2
LR	8	4
PB-8, PB-16	4	4

* Total combined load of modules and access control hardware may not exceed 4 amp.

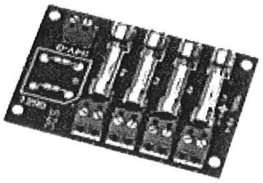
Table 2: 12VDC Standby Power

8 Ah Battery Qty	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
2	2.3	5.7	14.4	24.7
2.5	1.7	4.2	10.7	18.3
3	1.3	3.3	8.4	14.3
3.5	1.1	2.7	6.8	11.7
4	.5	1.3	3.3	5.7

Table 3: 24VDC Standby Power

8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hours		
2	2.3	5.7	9.8
2.5	1.7	4.2	7.3
3	1.3	3.3	5.7
3.5	1.1	2.7	4.6
4	.9	2.3	3.9

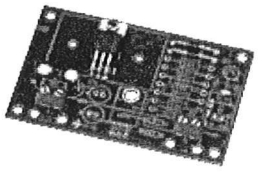
Multiple Use Output



FB-4

FB-4 Four 2 Amp fuse protected outputs provide precisely calculated circuit protection. Four modules provide 16 outputs.

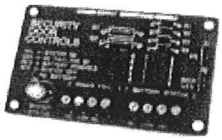
Dual 12VDC & 24VDC Outputs (optional)



12VR

Dual 12VDC and 24VDC Outputs (optional)
12VDC regulated and filtered output module with the power supply output set at 24VDC for locking devices and components, the addition of the 12VR provides a separate 12VDC, 500 mA output for 12VDC access controls and components. The total combined 12V/24V load may not exceed 4 Amps. Add up to four 12VR modules max.
Input: 24VDC
Output: 500 mA @ 12VDC

Remote Monitoring

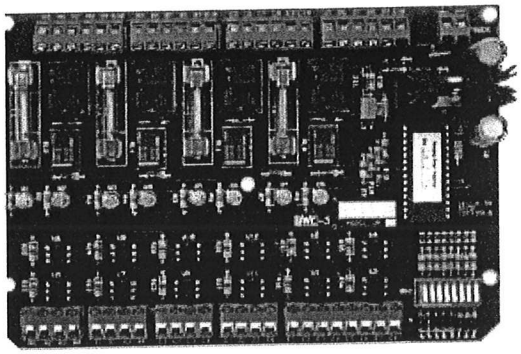


PSM

PSM Power Supply Remote Monitoring Module
The PSM Power Supply Monitoring module provides 2-SPDT, 1 Amp contacts to remotely monitor power supply and battery status.

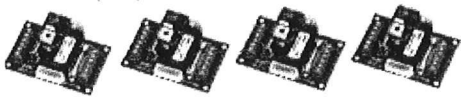
Remote annunciation conditions include:
- System OK
- AC Fail – No DC Output
- Battery Powered
- System Off – No Battery

Field Programmable Access Hardware Controller



The UR4A is capable of providing the logic of 8 relays.

Time Delay Logic



Latching or Conventional Relay Logic

"Security Industry Finest"
ISC Expo East and West

UR-2A Two Station Controller
UR-4A Four Station Controller

The UR series is a microprocessor based controller that provides six different, field selectable application modes for two, three or four stations. The controller installs in 600 series power supplies. Or, individual UR Series Access Hardware Controllers may be mounted in remote junction boxes and powered by a single power supply.

Interface and Centralized Wiring

The UR Series Access Hardware Controller provides complete system interface capability and centralized wiring of all components, including; access controls, electric locks, peripheral equipment and monitoring contacts.

Reduced Components and Engineering

Applications that require several individual relays may be costly and complicated, requiring additional engineering time to produce the proper system logic. The UR eliminates the need for multiple or different relays. All system logic is reduced to one controller.

Selectable Output Modes

- Conventional Relay
- Latching Relay (pulse on, pulse off) Latch individual station or all stations
- Time Delay Relay 1-35 seconds
- Dual, Latching & Time Delay Relay
- Mantrap - All doors normally locked
- Interlock - All doors normally unlocked
- Interlock - 1 door locked, 1 door unlocked. **UR-2A only**

Primary input triggers the Time Delay
Auxiliary input triggers latch function

The relay mode may be different per individual station. When mantrap or interlock mode is selected all outputs operate the same.

Documentation

Several access control and mantrap system wire diagrams are provided for common applications.

UR-2A Specifications

Input Voltage: 12 or 24VDC +/- 10%

Input Current: 280 mA, at rest
350 mA, operating

Trigger Inputs: N.O. Dry, Optically Isolated

Outputs:
2 Fused SPDT Dry, 5 Amp @ 30VDC
2 Non-fused, SPDT Dry, 1 Amp @ 30VDC

UR-4A Specifications

Input Voltage: 12 or 24VDC +/- 10%

Input Current: 350 mA, at rest
430 mA, operating

Trigger Inputs: N.O. Dry, Optically Isolated

Outputs:
4 Fused SPDT Dry, 5 Amp @ 30VDC
4 Non-fused, SPDT Dry, 1 Amp @ 30VDC

Dimensions: 7" W x 5" H x 2" D
(177.8 x 127 x 50.8 mm)

Door Control Modules

Door control relay modules ensure compatibility of access hardware components and simplify system installation and troubleshooting. Different modules may be specified for one power supply. **See Table 1 to determine the module capacity of the power supply.** The isolated relay design allows small gauge cable runs of 22 gauge wire up to 1000 feet from the trigger device to the module.

Contacts: 2.5 Amps inductive, 5 Amps resistive @ 30VDC unless specified otherwise.

TD Time Delay Relay Module
Voltage input: 35mA @12/24VDC
Timer Adj: 1-120 seconds
(1) Non-Fused, SPDT dry contact
(1) Fused SPDT voltage output
(1) N.O. dry trigger input
(1) N.C. dry trigger input
(1) Normally off voltage trigger input
(1) Anti-Tailgate N.O. timer reset input
3.25"W x 2"H (83 x 51mm)

CR-12, CR-24 Relay Module
Voltage input: 35mA, specify 12V or 24VDC
(1) Fused, SPDT voltage output
(1) SPDT dry contact
(1) N.O. dry trigger input
(1) Normally off, voltage trigger input
3.25"L x 2"W (83 x 51mm)

CR4 Four Station Relay Module
Voltage input: 120 mA @ 12/24VDC
(4) Fused, 2A SPDT dry outputs
or voltage outputs
(4) 2A SPDT dry outputs
(4) N.O. dry trigger inputs
3.25"L x 2"W (83 x 51mm)

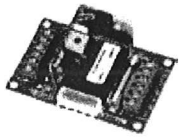
ACM-1 Access Control Module
Voltage input: 45mA @ 12/24VDC
(1) SPDT voltage output
(1) SPDT dry contact
(8) SPDT trigger inputs (4-NC,4-NO)`
(1) LED status indicator
5"L x 3.25"W (127 x 83mm)

LR-12, LR-24 Latching Relay Module
Voltage input: 45mA, specify 12V or 24VDC
(1) Fused, SPDT voltage output
(1) N.O. dry trigger input
3.25"L x 2"W (83 x 51mm)

PB-8 8 Amp Power Booster
Voltage input: 85mA @ 24VDC input
(1) N.O. Dry trigger Input:
(1) Fused SPDT voltage output
8 Amp Surge
1 Amp Continuous
3.25"W x 2"H (83 x 51mm)

PB-16 16 Amp Power Booster
Voltage input: 85mA @ 24VDC input
(1) N.O. Dry trigger Input:
(1) Fused SPDT voltage output
16 Amp Surge
1 Amp Continuous
3.25"W x 2"H (83 x 51mm)

14-212 14-224 Seven Day Timer
Field programmable, 7 day timer module recommended for automatic timed locking and unlocking of one door or all doors on the same circuit. Schedule up 6 events maximum on single or multiple days, manual on-off override. Replaceable lithium battery maintains time and schedule during power outage.
Input: 30mA, specify 12V or 24V AC/DC
SPDT dry contact, 16 Amps @ 30VDC
2.375"H x 2.375"W x 1.25"D (60.3 x 60.3 x 32mm)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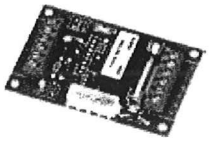
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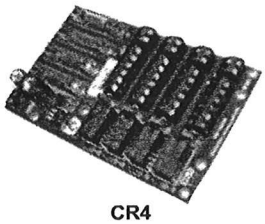
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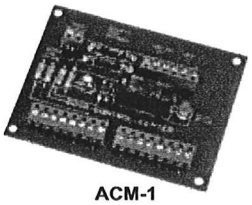
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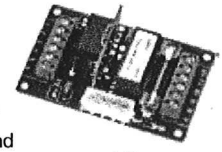
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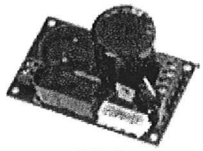

PB-8


PB-16


14-2

Table 4: Lock & Strike Wire Gauge Chart (AWG)
Distance in feet for 2 conductors from power source to the locking device.

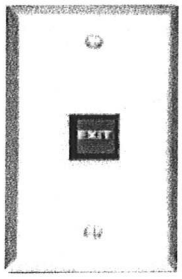
AMPS	25ft	50	75	100	150	200	250	300	400	500	750	1000
0.15	20	20	20	20	20	20	20	20	20	20	18	16
0.25	20	20	20	20	20	20	20	20	18	16	16	14
0.50	20	20	20	20	18	18	18	16	16	14		
0.75	20	20	20	18	18	16	16	14	14			
1.00	20	20	18	18	16	16	14	14				
1.50	20	18	18	16	14	14						
2.00	18	18	16	16	14							
2.50	18	18	16	14								
3.00	18	16	14									
3.50	18	16	14									
4	18	16	14									

Wire Gauge

Signal Wires: SDC recommends 22 gauge for all signal wiring.

www.sdcsecurity.com service@sdcsecurity.com
[t] 800.413.8783 805.494.0622 [f] 805.494.8861
801 Avenida Acaso, Camarillo CA 93012 • PO Box 3670, Camarillo CA 93011-3670

SDC Exit Switches



400 Series

The SDC 400 series are compact, unobtrusive and contemporary in design making it the perfect choice where esthetics are a priority. Built to last, the 400 series are backed by proven reliability and longevity.

¾" Button - Green Button - Dull Stainless Steel Finish

1 Gang	Narrow	Contact	Sign
401U	**401NU**	AA (On/Off) SPDT	none
402U	**402NU**	Momentary SPDT	EXIT
403U	**403NU**	With Timer Module 1-60 sec. 12/24V AC/DC, 2A SPDT Contact	EXIT
404U	**404NU**	Momentary DPDT	EXIT
405U	**405NU**	AA (On/Off) DPDT	none

Finishes

Suffix 'U' above indicates standard finish stainles steel
For special finish use suffix below in lieu of "U"

C 605 Bright Brass **D** 606 Dull Brass **F** 611 Bright Bronze
G 612 Dull Bronze **H** 613 Oil Rubbed Bronze **P** 625 Bright Chrome

Options

L1G 1 Green LED **LT** Tri-color LED - Red, Green, Amber
L1R 1 Red LED **E** Add Exit sign To AA Function Switch
L2 1 Red,1 Green LED **R** Red Button in lieu of green

Specifications

Contact: 5 Amp @ 30VDC
Wire Leads: 6", 20 Gauge
1 Gang: 2 7/8" x 4 1/2" x 20 Ga. (73 x 114 x 0.912 mm)
Narrow: 1 3/4" x 4 1/2" x 20 Ga. (45 x 114 x 0.912 mm)

Example

Model	Finish	Option
402	U	L2
422	U	L2

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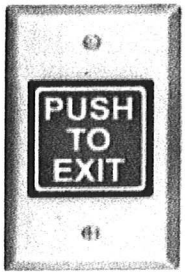


410 & 420 Series

The illuminated momentary switch button is two inches square for easy activation and is visually conspicuous. The standard "PUSH to EXIT" signage is large for easy identification. The high impact resistant material stands up to abuse.

The "PUSH to EXIT" signage complies with NFPA requirements. The 422A is designed for access and egress applications for the disabled and is equipped with the blue button and disabled access symbol.

1 Gang; 2" Button, Green Illuminated Button - Stainless Steel
Narrow; 1¾"x1" Button, Green Illuminated Button - Stainless Steel

1 Gang	Narrow	Contact	Sign
422U	**412NU**	Momentary SPDT	PUSH TO EXIT
423U	**413NU**	Integrated 1-60 sec Timer 12/24VDC, 2A voltage output	PUSH TO EXIT

2" Button - Blue Illuminated button only

422AU	Momentary SPDT	♿
423AU	Integrated 1-60 sec Timer 12/24VDC, 2A voltage output	♿

Finishes

Suffix 'U' above indicates standard finish stainles steel

C 605 Bright Brass **D** 606 Dull Brass **F** 611 Bright Bronze
G 612 Dull Bronze **H** 613 Oil Rubbed Bronze **P** 625 Bright Chrome

Options

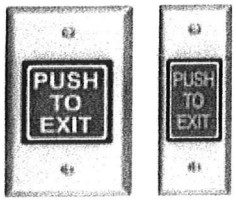
L1G 1 Green LED **LT** Tri-color LED - Red, Green, Amber
L1R 1 Red LED **R** Red Button in lieu of green
L2 1 Red,1 Green LED

Specifications

Contact: SPDT, 10 Amp @ 30VDC
Timer: SPDT 2 Amp @ 12/24VDC
Wire Leads: 6", 20 Gauge
1 Gang: 2 7/8" x 4 1/2" x 20 Ga. (73 x 114 x 0.912 mm)
Narrow: 1 3/4" x 4 1/2" x 20 Ga. (45 x 114 x 0.912 mm)

BSI
ISO 9001 : 2000
FM 52705

www.SDCsecurity.com Email: service@SDCsecurity.com



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Access Control Accessory
3625-0324:107

Enterprise Engineering
Laboratories Listed
UL 294 Test Standard Compliant

Code Compliant Exit Switches

Code Compliant Manual Releasing Devices and Sensors
423M and 413MN exit switches used together with the MD31D PIR sensor comply with manual releasing device and sensor device requirements for **Access-Controlled Egress Doors** per the following codes:

- NFPA 101 Life Safety Code - 7.2.1.6.2
- NFPA 1 Uniform Fire Code - 14.5.3.2
- BOCA National Building Code - 1017.4.5
- SBCCI Standard Building Code - 1012.7

1 Gang: 2" Button, Green Illuminated Button - Stainless Steel
Narrow: 1¾"x1" Button, Green Illuminated Button - Stainless Steel

1 Gang	Narrow	Contact	Sign
423MU	**413MNU**	Integrated Fixed 30 sec. Timer 12/24VDC, 2 Amp voltage output	PUSH TO EXIT

Finishes

Suffix 'U' above indicates standard finish stainles steel
For special finish use suffix below in lieu of "U"

C 605 Bright Brass **D** 606 Dull Brass **F** 611 Bright Bronze
G 612 Dull Bronze **H** 613 Oil Rubbed Bronze **P** 625 Bright Chrome

Options

L1G 1 Green LED **LT** Tri-color LED - Red, Green, Amber
L1R 1 Red LED **R** Red Button in lieu of green
L2 1 Red,1 Green LED

Specifications

Contact: Momentary, SPDT 10 Amp @ 30VDC
Wire Leads: 6", 20 Gauge
1 Gang: 2 7/8" x 4 1/2" x 20 Ga. (73 x 114 x 0.912 mm)
Narrow: 1 3/4" x 4 1/2" x 20 Ga. (45 x 114 x 0.912 mm)

PIR Egress Sensor

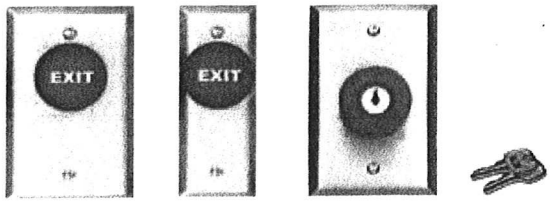
UL listed 294
Access Control System Units

The MD31D PIR request-to-exit sensor unlocks doors automatically when persons approaching door are detected. The MD31D complies with national fire and building code requirements of for Access Controlled Egress Doors listed above. Code compliant failsafe mode releases locks when power to PIR sensor is interrupted.

Model	Color	
MD-31DW	White	PIR Egress Sensor
MD-31DB	Black	PIR Egress Sensor

Specifications

Input: 12 or 24 VAC/DC @ 26mA max
Contact: 2 SPDT Dry, 2 Amp @ 30VDC
Operating Temp: -20° F to 120° F (-29° C to 49° C)
Dimensions: 1.5" H x 6.25" W x 1.5" D
(38.1 H x 148.8 W x 38.1 D mm)



430 Series Mushroom Exit Switch

The SDC 430 Heavy Duty Industrial Series incorporates a 1 1/2" round mushroom button with heavy duty water resistant contacts. The assembly is capable of withstanding high impact and is ideal for heavy duty high frequency use.

1.5" Mushroom, Green Button Standard, Dull Stainless Steel

1 Gang	Narrow	2 Gang	Contact	Sign
431CU	**431CNU**		AA **(On/Off)** NC SPST	none
431OU	**431ONU**		AA **(On/Off)** NO SPST	none
432CU	**432CNU**		Momentary NC SPST	EXIT
432OU	**432ONU**		Momentary NO SPST	EXIT
		433U	Momentary with Timer Module, Adj. 1-60 seconds 12/24V AC/DC, SPDT 2A Contact	EXIT
434U	**434NU**		Momentary DPST	EXIT
435U	**435NU**		AA (On/Off) DPST	none

Latching Function with Key Reset

The SDC 432KUR latches when depressed and must be reset with the built-in-key. Applications include alarm, panic alarm and emergency door release where systems are restored by authorized personnel only.

1.5" Mushroom, Red Button Standard, Dull Stainless Steel

1 Gang	Narrow	Contact	Sign
432KUR	**432KNUR**	Latching/ key reset DPST	none

Finishes

Suffix 'U' above indicates standard finish stainles steel
For special finish use suffix below in lieu of "U"

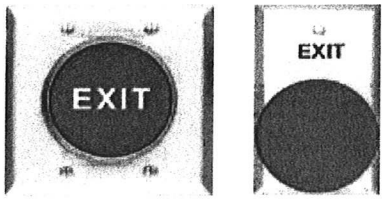
C 605 Bright Brass **D** 606 Dull Brass **F** 611 Bright Bronze
G 612 Dull Bronze **H** 613 Oil Rubbed Bronze **P** 625 Bright Chrome

Options

L1G 1 Green LED **LT** Tri-color LED - Red, Green, Amber
L1R 1 Red LED **R** Red Button in lieu of Green
L2 1 Red,1 Green LED

Specifications

Contact: 6 Amp @ 30VDC
Wire Connection: Screw Terminals
1 Gang: 2 7/8" x 4 1/2" x 20 Ga. (73 x 114 x 0.912 mm)
Narrow: 1 3/4" x 4 1/2" x 20 Ga. (45 x 114 x 0.912 mm)
2 Gang: 4 1/2" x 4 1/2" x 20 Ga. (114 x 114 x 0.912 mm)



440 Heavy Duty Series

The conspicuous 440 Heavy Duty Industrial series switch assemblies incorporates a 2 5/8" inch diameter mushroom button and heavy duty water resistant contacts. The large 2 gang mushroom assembly incudes a heavy duty steel bezel around the button to guard against abuse. When utilized as an Exit or REX switch, the assembly is easy to activate and stands out for persons without prior knowledge of egress operation.

In addition to egress applications, the large assembly is ideal as an easy to activate Emergency/Panic Alarm switch.

2-5/8" Mushroom, Red Button Standard, Dull Stainless Steel Finish, Specify G For Optional Green button

1 Gang	2 Gang	Contact	Sign
	441U	AA (On/Off) DPST	none
	442U	Momentary DPST	EXIT
	443U	Momentary with Timer Module, Adj. 1-60 seconds 12/24V AC/DC, SPDT 2A Contact	EXIT
	444U	Momentary 2-DPST	EXIT
446U		Momentary DPST	EXIT

Finishes

Suffix 'U' above indicates standard finish stainlessteel
For special finish use suffix below in lieu of "U"

C 605 Bright Brass **D** 606 Dull Brass **F** 611 Bright Bronze
G 612 Dull Bronze **H** 613 Oil Rubbed Bronze **P** 625 Bright Chrome

Options

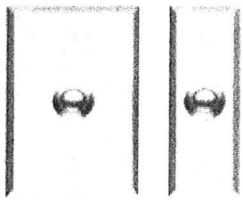
L1G 1 Green LED **LT** Tri-color LED - Red, Green, Amber
L1R 1 Red LED **E** Add Exit sign To AA Function Switch
L2 1 Red,1 Green LED **G** Green button in lieu of Red

Specifications

Button: Mushroom, 2 5/8" (67 mm)
Contact: 6 Amp @ 30VDC
Wire Connections: Screw Terminals
1 Gang: 2 7/8" x 4 1/2" x 20 Ga. (73 x 114 x 0.912 mm)
2 Gang:: 4 1/2" x 4 1/2" x 20 Ga. (114 x 114 x 0.912 mm)

Example

Model	Finish	Option
432O	**U**	L2
446	**U**	L2



450 Vandal Resistant Series

The SDC 450 Series incorporates a 1/4" thick aluminum faceplate and an all stainless steel button. The assembly will resist the impact of a hammer blow. In addition, security spanner mounting screws are concealed by tamper resistant aluminum plugs to inhibit tampering.

Pneumatic Time Delay
The 452PTD includes a 2 to 60 second pneumatic timer for delayed relocking. Where preferred, the 10TD Electronic Mini Timer may be specified for use with the standard 452 model (see page 4).

Stainless Steel Button - 1/4" Thick Aluminum Plate - Security Screws
Plated Finish Not Available

1 Gang	Narrow	Contact	Sign
451V	**451NV**	AA (On/Off) SPDT	none
452V	**452NV**	Momentary SPDT	none
452VPTD	**452NVPTD**	Integrated Pneumatic Timer Adj. 2-60 sec. SPDT contact	none

Specifications

Button: Round Dull Stainless Steel button, 1/2" (13 mm)
Contact: 6 Amp @ 30VDC
Wire Connections: Screw Terminals
1 Gang: 2 7/8" x 4 1/2" x 1/4" (73 x 114 x 6.35 mm)
Narrow: 1 3/4" x 4 1/2" x 1/4" (45 x 114 x 6.35 mm)

460 Vandal Resistant Series

- Vandal resistant stainless steel piezoelectric button and faceplate
- No moving parts
- Billion cycle button technology
- Bi-color status indicator, Red and Green
- Integrated timer, adj. 1-40 seconds

The SDC 460 series is a heavy duty, vandal resistant exit switch designed for harsh indoor or outdoor environments. The stainless steel piezoelectric technology is also ideal for high traffic applications. The switch assembly design insures superior performance in virtually any environment.

1/8" Stainless Steel - Security Screws - Plated Finish Not Available

1 Gang	Contact	Sign
460U	Integrated 1-40 Sec Timer, NO/NC 2A Contact	PUSH TO EXIT

Specifications

Input Voltage: 12/24VDC
Current: LED On: Idle-60mA, Active-120mA, LED Off: Idle-10mA, Active-60mA
Outputs: 1 N.O., 1 N.C., 2 Amp @ 30VDC
Relay Life Expectancy 100,000 cycles @ 2A 30VDC 200,000 cycles @ 1A 30VDC
Operating Temp: -40° F to +160° F (-40° C to +70° C)
1 Gang: 4.5" H x 2.25" W x 1.25" D (114 x 57 x 32 mm)

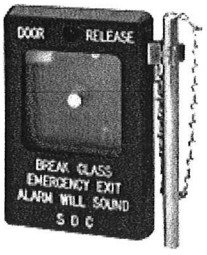
Mini Timer Module

The electronic Mini Timer delays relocking of access controlled door to provide persons ample time needed to complete door entry or egress. The Mini Timer is compatible with all SDC momentary key and exit switches equipped with a normally open contact. The module assembly fits inside a two gang key or exit switch assembly or may be installed separately in a narrow frame or remote junction

10TD Mini Timer Module, Adjustable 1 - 60 seconds

Specifications

Input: 12/24 VDC / VAC @ 50 mA
Trigger Input: N.O. Dry
Contact: SPDT Dry, 2 Amps @ 30VDC
Wire Leads: 6", 20 Gauge
Size: 3/4" x 1-1/2" x 2-1/4" (19 x 38 x 57 mm)



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Access Control Accessory
3625-0324:107

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Laboratories Listed
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Emergency Door Release

The SDC 491 "Break Glass" Emergency Door Release provides immediate unlocking of perimeter doors or interior doors that are equipped with fail-safe electric locks. The 491's siren may be used as a local door annunciator.

Model

491	Break Glass Emergency Door Release with Siren
491-GL	4 Each Replacement Glass
491-BB	Surface Mount Back Box

Specifications

Contact: DPDT, 10 Amp @ 30VAC/DC
Siren: 20 mA @ 12/24VAC/DC
1 Gang: 3.5" x 5.25" (89 x 133 mm)

Communicating Bathroom System Controls

For a common single bathroom shared by two patient rooms or dormitory rooms, the CB400A controls provides privacy and ensures that both doors are locked only when the bathroom is occupied and unlocked when the bathroom is not occupied. The CB400B controls provide emergency access by facility staff. Both doors unlock when signalled by the fire life safety system.

For communicating bathroom systems with EMLocks

CB401A The CB401A is located inside the bathroom. Depressing the button locks both doors for privacy. Pressing the button again unlocks both doors ensuring both doors are unlocked when unoccupied.

CB401B The CB401B Emergency door release (2 required) is located outside the bathroom above or adjacent to the door. The illuminated push switch button indicates the doors are locked. Depressing the push switch unlocks both doors.

Additional Components Required

- 2 EMLock's:
  1581VD – 650lbs Holding Force
  or 1571VD – 1200lbs Holding Force
- 631RF-CR-CBA Power Supply

For communicating bathroom systems with Electrified Locksets

CB402A The CB402A is located inside the bathroom. Depressing the push switch locks both doors on the outside only. Doors are always unlocked on the inside for uninhibited egress. Exiting either door causes both doors to unlock.

CB402B The CB402A Emergency door release (2 required) is located outside the bathroom above or adjacent to the door. The illuminated push switch button indicates the doors are locked. Depressing the push switch unlocks both doors.

Additional Components Required

- 2 each Electrified Locksets:
  Z7250 Electrified Cylindrical lock with Rex output
  or Z7850-R Electrified Mortise lock with REX output
- PTH-4Q four wire power transfer hinge
- 631RF –LR-CBA Power Supply

Specifications

Contact: SPDT 5 Amp @ 30VDC
Wire Leads: 6", 20 Gauge
1 Gang: 2 7/8" x 4 1/2" x 20 Ga. (73 x 114 x 0.912 mm)

SECURITY DOOR CONTROLS

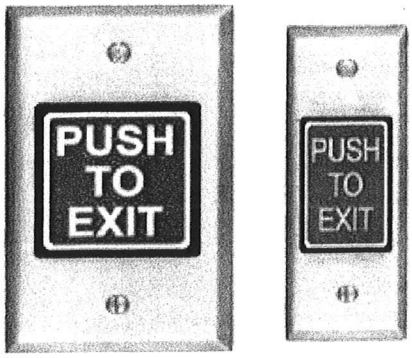
SDC

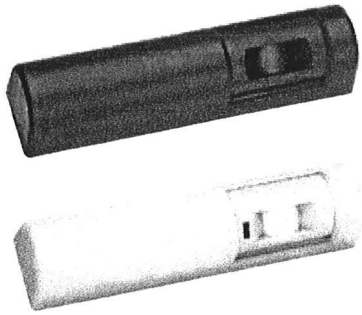
P.O. Box 6219, Westlake Village, CA 91359-6219
3580 Willow Lane, Westlake Village, CA 91361-4219
(805) 494-0622 · (800) 413-8783 · Fax (805) 494-8861
Email: service@SDCsecurity.com www.SDCsecurity.com

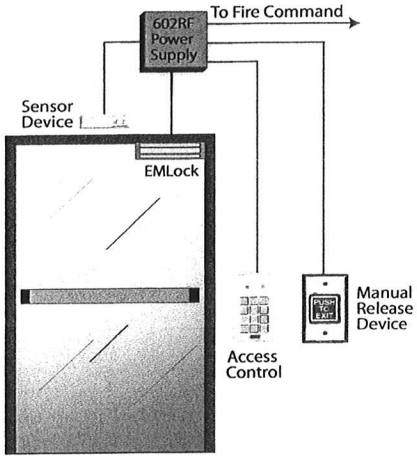
P.O. Box 6219, Westlake Village, CA 91359-6219
3580 Willow Lane, Westlake Village, CA 91361-4921
(805) 494-0622 (800) 413-8783 Fax: (805) 494-8861
Email: service@sdcsecurity.com www.SDCsecurity.com

400M Manual Release Device / MD31D Sensor Device

Egress Devices for Code Compliant Access-Controlled Egress Doors







Manual Release Device

The 400M series exit switch complies with national fire and building code requirements for manual releasing devices as specified for Access-Controlled Egress Doors.

413MNU
Narrow Request-To-Exit Switch
1-3/4" x 1" Button, 1-3/4" Faceplate
For narrow frame mount applications

423MU
Single Gang Request-To-Exit Switch
2" square button, wall mount.

Features

- 30 second relock delay, fixed
- Retriggerable - pushing the switch at anytime restarts the timer cycle
- Failsafe mode releases lock when power to the switch is lost
- Sign: PUSH TO EXIT
- Illuminated push button

Specifications

Input: 35mA @ 12/24VDC
Voltage Output: SPST, Normally Off, 1 Amp @ 12/24VDC

Sensor Device

The MD31D series REX sensor complies with national fire and building code requirements for sensor device as specified for Access-Controlled Egress Doors.

MD31DW
PIR Request-to-Exit Sensor, White

MD31DB
PIR Request-to-Exit Sensor, Black

Features

- 1-60 second relock delay
- Frame, wall or ceiling mounted
- Pointable U shape coverage field from 5' x 6' to 10' x 12'

Specifications

Input: 12/24V AC/DC @ 26mA max
Output: 2 SPDT Dry, 1 Amp @ 30VDC
Operating temp: 32° F to 122° F (0° C to 50° C)
Dimensions: 2" H x 7" W x 2" D (5.1 H x 17.8 W x 5.1 D cm)

Code Compliance

413MNU and 423MU exit switches used together with the MD31D PIR sensor comply with the manual releasing device and sensor device requirements of national building and fire life safety codes.

- **ICC International Building Code** 1008.1.3.4
- **ICC International Fire Code** 1008.1.3.4
- **NFPA 101 Life Safety Code** 7.2.1.6.2 Access-Controlled Egress Doors
- **NFPA 1 Uniform Fire Code** 14.5.3.2 Access-Controlled Egress Doors
- **BOCA National Building Code** 1017.4.5 Access-Controlled Egress Doors
- **SBCCI Standard Building Code** 1012.7 Access-Controlled Egress Doors

3625-0324-107

Enterprise Engineering Laboratories Listed

US LIST
294 Access Control Systems Unit

SECURITY DOOR CONTROLS

ISO 9001 : 2000
FM 52705