SDC Security Door Controls

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INSTALLATION INSTRUCTIONS
101-DE/101-KDE

Verbal Exit Instructions or Alarm Tone Only and Digital Countdown Display



Application:

When unauthorized egress is initiated SDC Exit Check® delays egress through the door for 15 seconds (or 30 seconds). Meanwhile, the person exiting must wait while personnel or security responds. The door unlocks after 15 seconds have elapsed permitting egress. When powered by a fire control supervised power supply, the lock will release immediately in an emergency. The integral digital keypad eliminates the need to carry and locate keys for reset and bypass functions.

Exit Check® applications include:

- Restricting the egress of wandering patients for their own safety.
- HUGS® Infant Protection System compatibility
- Restricting the egress of commercial center patrons for security application needs.
- Controlling pedestrian traffic in transportation facilities, including airport jetways and tarmacs
- Reducing Shoplifting and Employee Theft

Features:

Egress Delay

- 15 or 30 second exit delay
- 1 or 2 second nuisance delay

Built-In 3 Function keypad

- Alarm and lock reset
- 1 to 30 second bypass
- Sustained bypass
- Additional keyswitch optional

Built-In Annunciation

- Armed mode
- Nuisance mode
- Irreversible egress mode
- Release mode
- Digital countdown mode
- Field selectable voice notification or tone
- Field selectable male voice with security message or female voice with safety message

Triggering Options

- Egress alarm triggered by door movement when used with SDC 1500DE series EMLocks.
- Trigger input from external device field selectable (N/O or N/C)

Control Inputs

- 1 to 30 second request-to-exit and bypass input with anti-tailgate and jumper selectable door prop alarm.
- Reset

Monitoring Outputs

- Armed mode
- Egress initiation status
- Released status

Optional EMLock Outputs

- Door position sensor – indicates door open and door closed, commonly used to verify egress after release.
- Magnetic bond sensor – indicates locked with full holding force, low holding force, unlocked and tampering.

Choice of Mounting

- Recessed mounted (3 gang metal plaster ring included)
- Surface mounted with optional 3 gang box (DEC-J)
- Optional shroud (SHD-J) to be used with DEC-J surface box.

Display Modes

15	Door armed and locked.
00	Alarm countdown has ended, door is unlocked and alarm sounding until reset.
- -	Door unlocked and alarm is shunted (REX or Bypass)
⋮⋮	Door has been opened after REX, Bypass or Alarm.

Code Compliance

- IFC International fire Code
- IBC International Building Code
- NFPA 101 Life Safety Code
- NFPA 1 Uniform Fire Code
- California Building Code
- Field selectable automatic or manual power up after emergency release or power loss. Use of manual power up complies with California Building Code (OSHPD) requirements.

Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdcsecurity.com

101-DE/101-KDE Operational Description

The door is closed and secured by latching hardware. The model 101-DE/101-KDE Exit Check controller sends power to the magnetic lock or Delayed Egress Panic Device to lock the door in the secured position. The integral digital display shows the unlock delay time.

Activation / Alarmed Release :

Activation of the Exit Check's trigger input initiates the 15 or 30 second unlock cycle . A pre-activation warning tone is sounded during the short nuisance delay period and the integral display starts counting down. To prevent false alarms, removing the trigger input activation during the nuisance delay period will silence the pre-activation warning tone, reset the countdown display and keep the door locked.

Once the nuisance delay period has been exceeded, the Exit Check continues to count down during an irreversible door release cycle. The integral digital countdown display and voice commands continue to inform the person intending to exit of the seconds remaining until unlock. An alarm output is activated to alert personnel of an unauthorized exit. After the 15 or 30 second delay cycle has expired, the Exit Check will remove power to the locking device, releasing the door and allowing free egress.

Reset / Relock:

The Exit Check can be manually reset by authorized personnel by closing the door and entering a code on the integral digital keypad, momentarily turning the optional reset key switch to the reset position or by momentarily activating a N/O switch connected to the remote reset terminals.

Request to Exit / Authorized Bypass:

A Request to Exit cycle is initiated by entering an authorized REX code on the integral digital keypad, momentarily turning the optional key switch to the bypass position or momentarily activating a N/O switch connected to the REX terminals. The power will be removed from the locking device allowing free egress. After the request to exit cycle has expired, the Exit Check will automatically reapply power to the locking device to re-secure the door.

Unlocking the door for extended periods of time (Authorized Bypass mode) is accomplished by entering an Authorized Bypass code on the integral keypad, momentarily turning the optional key switch to the Bypass position or placing a maintained closure across REX terminals. Releasing the closure across the REX terminals will restart the Request to Exit cycle. Entering the Reset code on the integral digital keypad, or momentarily turning optional key switch to the Reset position will immediately reapply power to the locking device to re-secure the door.

(NFPA-101)

The 101-DE/101KDE operation complies with the following building and fire codes: NFPA 101; NFPA 1-UFC; UBC; IBC; IFC; SBC; California Building Code. Listings: UL Listed: Special Locking Arrangements and Auxiliary Locks; California State Fire Marshal (CSFM) Listed.

Option Code	Delay Release Time	Nusiance Time	Reset after Alarm	Lock Status on Power-Up
NA	15 sec or 30 sec Selectable	1 sec or 2 sec Selectable	Manual	Locked or Unlocked Selectable
ND	15 sec Fixed	0 sec or 1 sec Selectable	Manual	Locked or Unlocked Selectable
NH	30 sec Fixed	0 sec or 1 sec Selectable	Manual	Locked or Unlocked Selectable
NC (CBC Compliant)	15 sec Fixed	0 sec or 1 sec Selectable	Manual	Unlocked Fixed

Per BOCA compliance, the Exit Check is manually reset by authorized personnel after an alarm by closing the door and actuating the integral reset key switch or by momentarily closing a contact connected to the remote reset terminals. In addition, reset will be automatically initiated once the door has been opened, then closed and remains closed for 30 consecutive seconds.

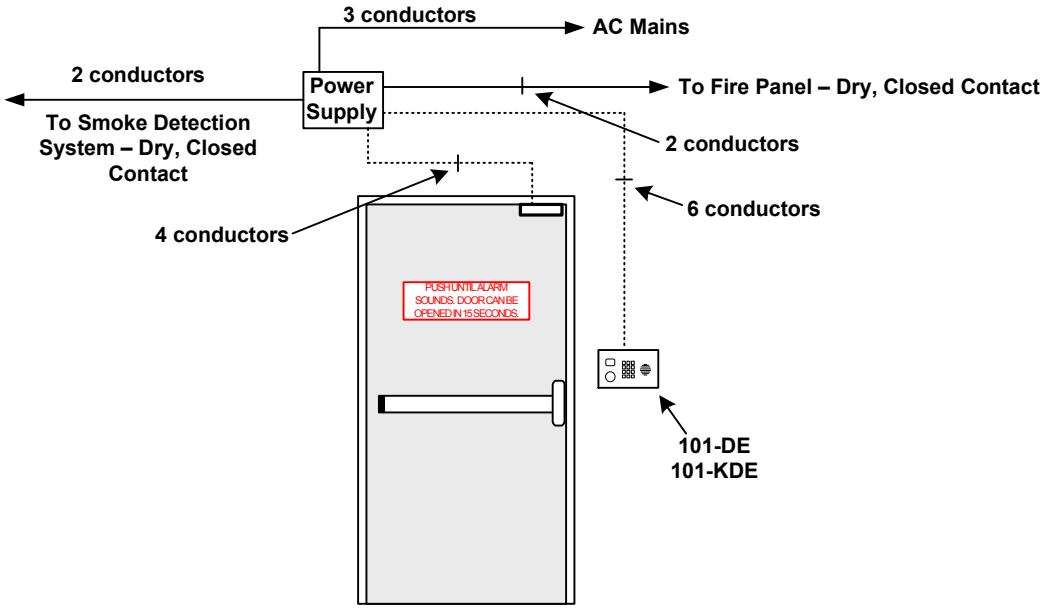
(BOCA/Chicago)

The 101-DE/101-KDE operation complies with BOCA National Building Code and the Chicago Building Code: UL Listed, Special Locking Arrangements and Auxiliary Locks.

Option Code	Delay Release Time	Nusiance Time	Reset after Alarm	Lock Status on Power-Up
BD	15 sec Fixed	0 sec or 1 sec Selectable	Auto/Manual	Locked or Unlocked Selectable
BH	30 sec Fixed	0 sec or 1 sec Selectable	Auto/MAnual	Locked or Unlocked Selectable
BC	15 sec Fixed	0 sec Fixed	Auto/Manual	Locked or Unlocked Selectable

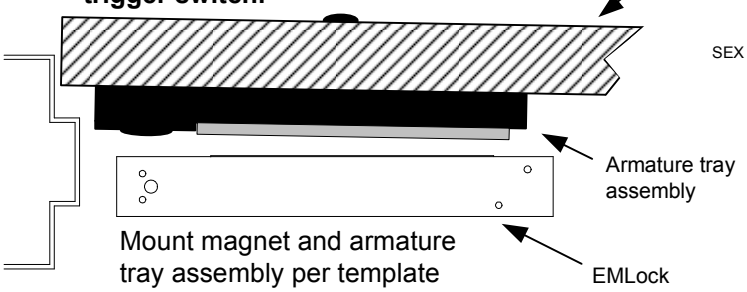
Typical System Wiring –
Single Door w/ Latching Hardware

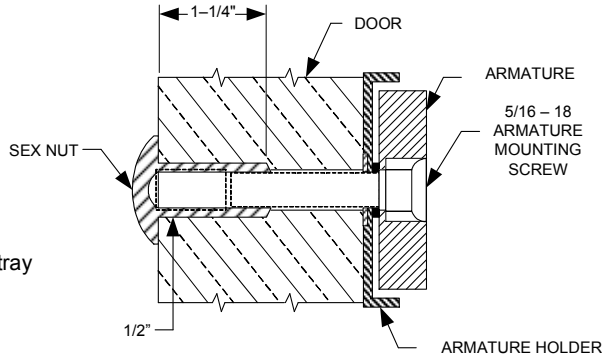
WARNING:
APPLICATION OF VOLTAGE TO THE DRY CONTACT INPUTS OF THIS UNIT WILL CAUSE PERMANENT DAMAGE AND VOID THE WARRANTY



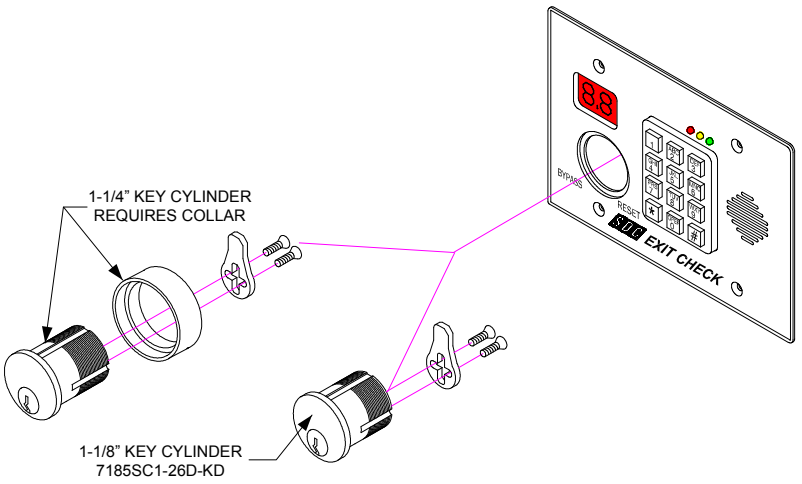
Models: 1511DE, 1571DE & 1581DE

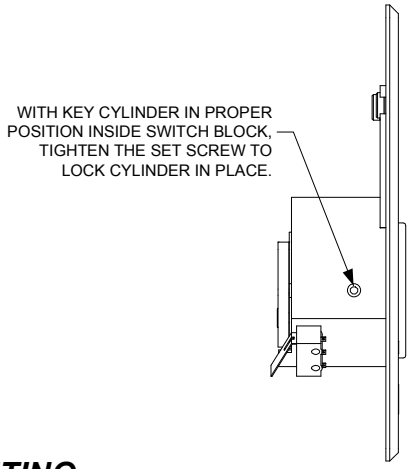
Note: Armature assembly with tray required for proper operation of the trigger switch.



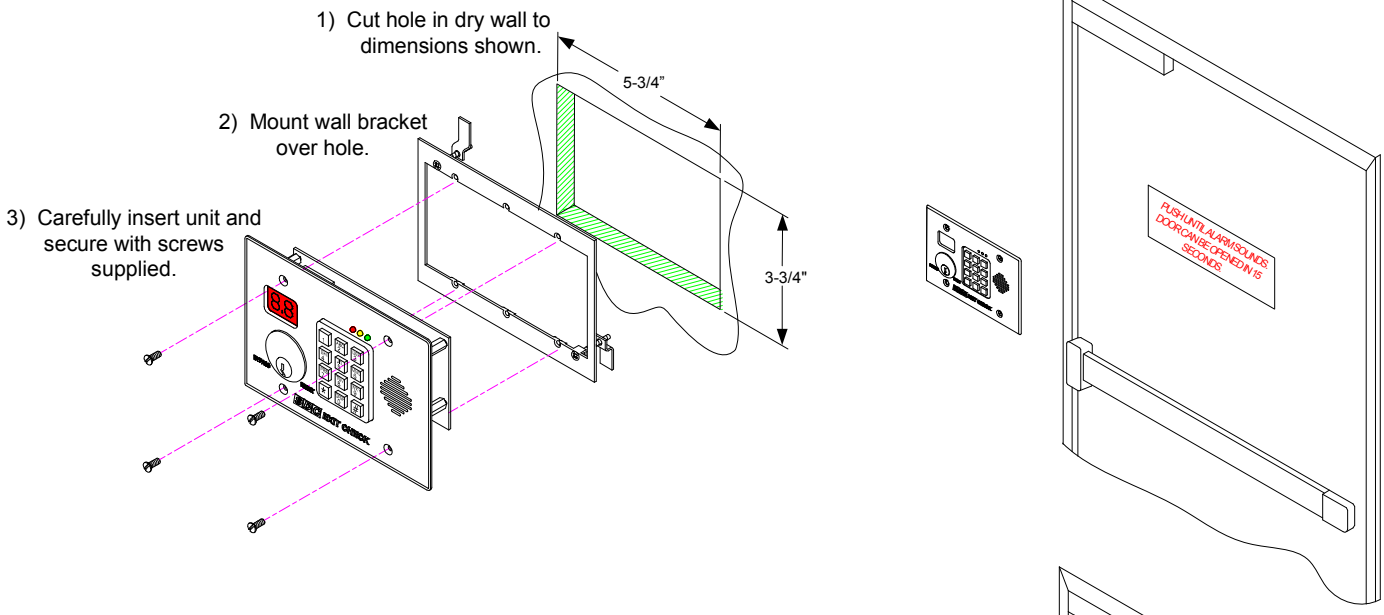


KEY CYLINDER INSTALLATION
(KDE Model Only)

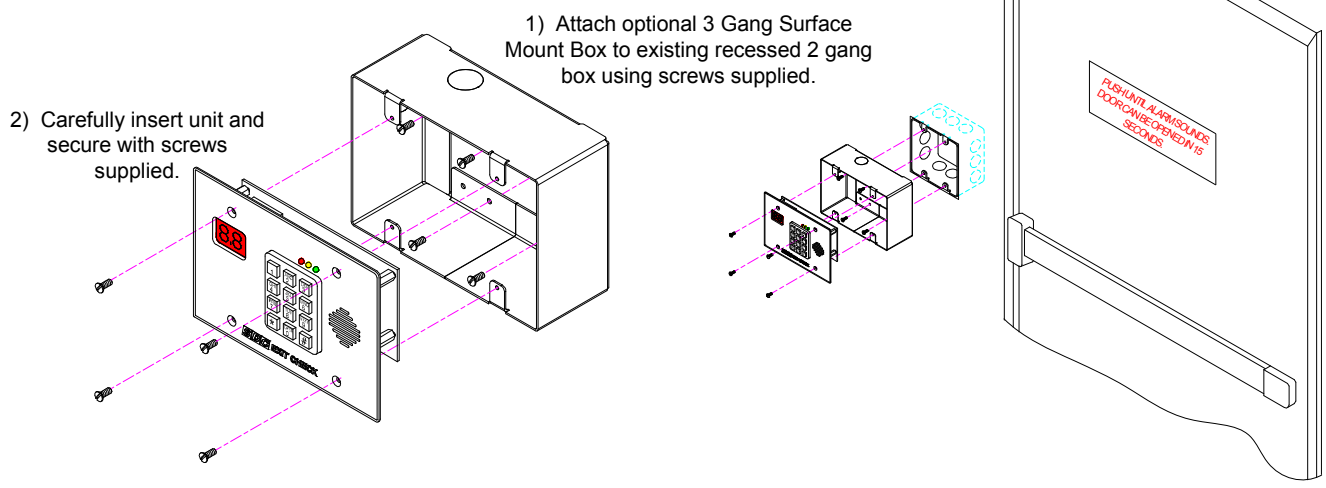




RECESSED MOUNTING
DRY WALL



SURFACE MOUNT 3 GANG BOX OVER
EXISTING RECESSED 2 GANG BOX

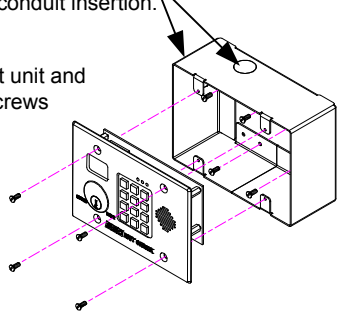


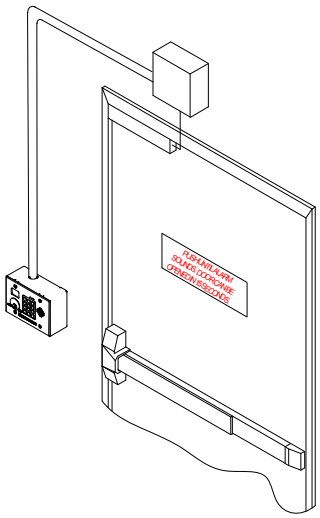
SURFACE MOUNT 3 GANG BOX TO WALL

1) Attach optional 3 Gang Surface Mount Box to wall using screws supplied.

1a) Knockouts are located on two surfaces of the box to allow wire conduit insertion.

2) Carefully insert unit and secure with screws supplied.



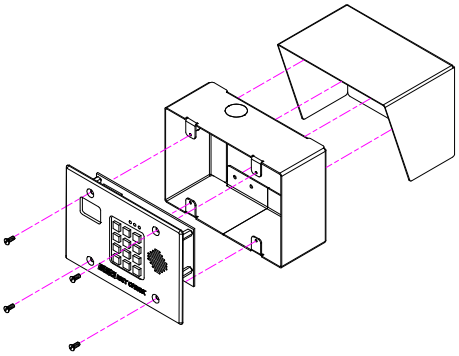


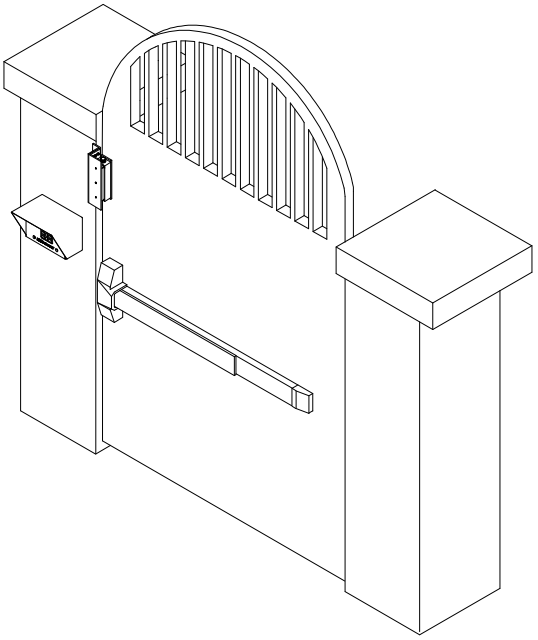
OUTSIDE WALL or POST MOUNTING with WEATHER SHROUD

1) Use optional 3 Gang Box inside optional Shroud as a template to drill pilot holes through shroud and into post (or wall).

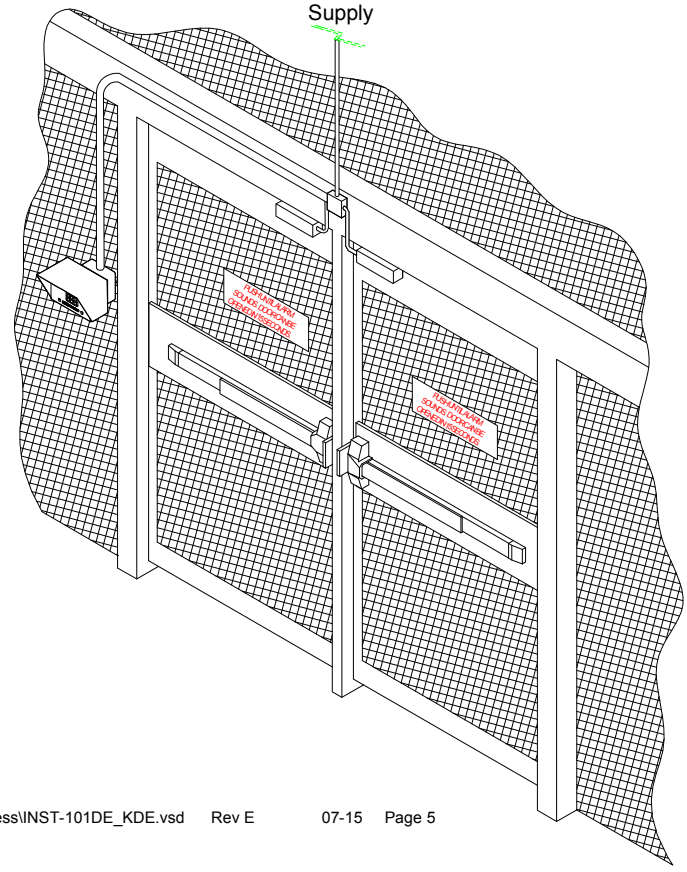
2) Mount 3 Gang Box and Shroud to Post with screws supplied.

3) Carefully insert unit and secure with screws supplied.





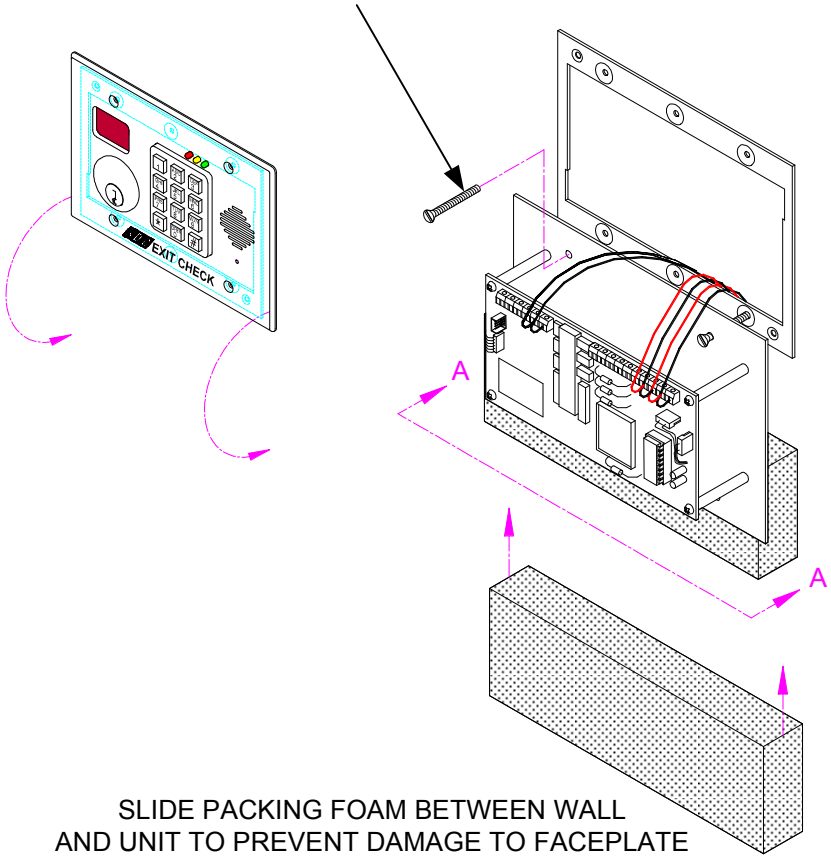
To Power Supply



CAUTION:
101-DE CONTROLLERS ARE DESIGNED FOR INDOOR USE.
UNIT IS NOT WATER PROOF

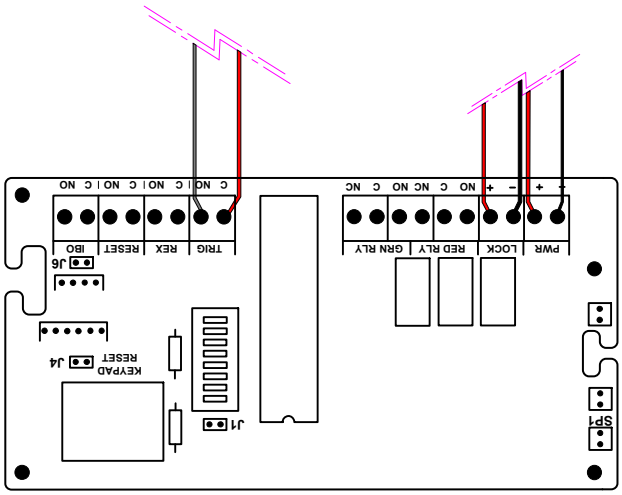
RECOMMENDED MOUNTING PROCEDURE

USE 1-1/4” SCREWS SUPPLIED WITH
WALL MOUNT FRAME TO HANG UNIT
TEMPORARILY FOR WIRING PURPOSES



SLIDE PACKING FOAM BETWEEN WALL
AND UNIT TO PREVENT DAMAGE TO FACEPLATE

VIEW A-A



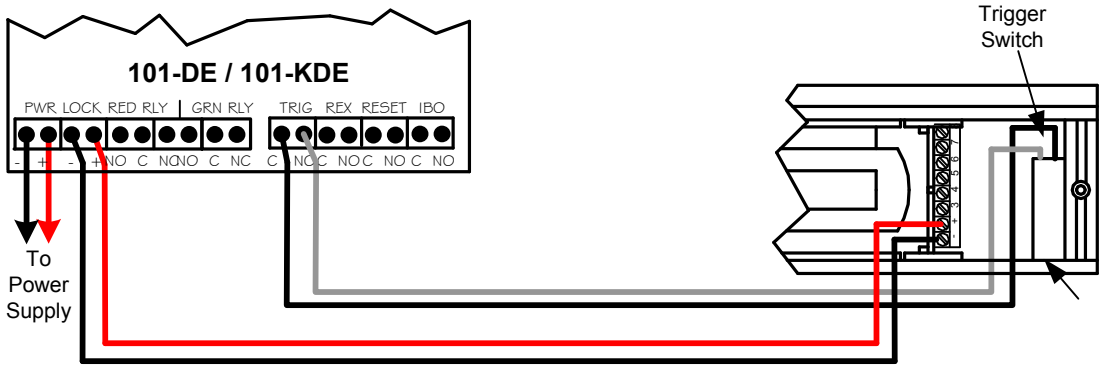
WIRE UNIT AS SHOWN (SHOWN WITH NO OPTIONS).

MODEL 101-DE



MODEL 101-KDE

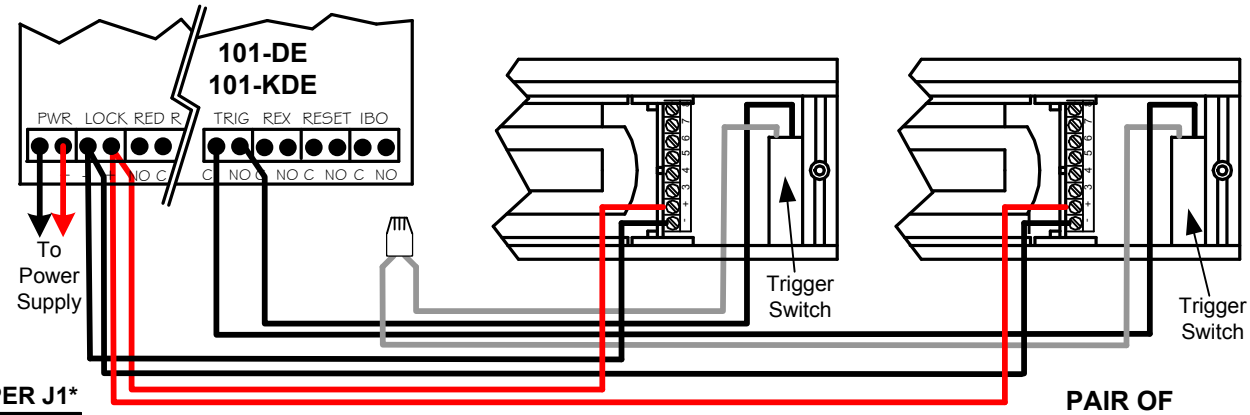




SDC MODELS

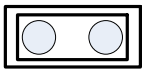
1511DE 1575DE
1571DE 1576DE
1581DE

Note for 1581DE only: Peel double sided tape on trigger switch clip and stick flush against end-block and sidewall as shown.

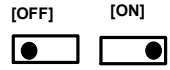


PAIR OF DOORS

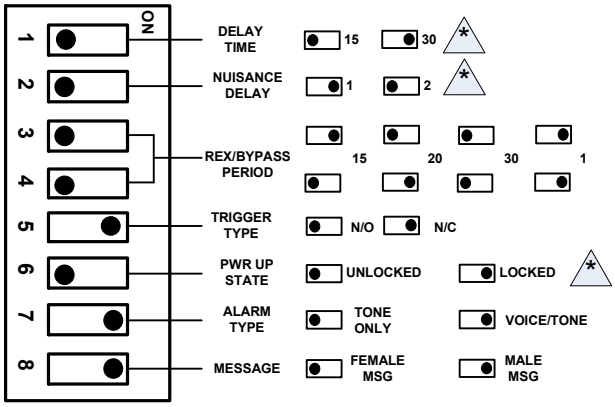
JUMPER J1*



[OFF] [ON]



DIP SWITCH SETTINGS



***JUMPER J1 (DOOR PROP)**

INSTALLED: The 101DE/KDE will enter the alarm mode if the door is held open past the request to exit period.

REMOVED: The 101DE/KDE will remain unlocked if the door is held open past the request to exit period. No alarm will sound. The 101DE/KDE will relock and rearm upon closure of the door.

CONTROLLER SPECIFICATIONS	
INPUT VOLTAGE	12 VDC OR 24 VDC
MAX CURRENT DRAW (CONTROLLER ONLY)	180mA @ 12/24 VDC
MAX CURRENT (LOCK OUTPUT)	1 Amp @ 12/24 VDC
MONITOR RELAYS CONTACT RATING	1 Amp @ 12/24 VDC (RESISTIVE)
TEMPERATURE	0°C – 70°C

WARNING!

CONTACT THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO SELECTING DELAY TIME OR PWR-UP SETTINGS

Functionality of the switches vary with the program option code. See Page 2 for a detailed description.

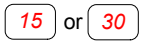
System Operation

POWER-UP UNLOCKED



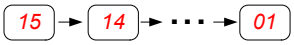
The door is unlocked. To enter the Armed Mode, turn the keyswitch to Reset or enter the Reset Code "11✱" on the keypad

POWER-UP LOCKED



The door is locked and secure

DELAYED EGRESS MODE



The door is still locked and secure. The display is counting down with audible alarm/voice instructions. Once the display reaches "00", the door will unlock.

ALARMED UNLOCKED [Alternating Display]

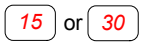


The door is unlocked and the alarm is sounding. To return to Armed Mode, close the door and turn the keyswitch to Reset or enter the Reset Code "11✱" on the keypad



The door is unlocked and has been opened

RESET [Armed] → Keypad Code 11✱ (Green LED solid)



The door is locked and secure

AUTHORIZED EGRESS [REX] → Keypad Code 22✱ (Green LED Solid)



Door Closed

Door has been opened

The door is unlocked until the REX timer has expired or until the door has been opened and then closed.

BYPASS [Maintained Unlock] → Keypad Code 33✱ (Green LED Flashing)



Door Closed

Door has been opened

The door is unlocked indefinitely. To return to Armed Mode, enter the Reset Code "11✱"on the keypad.

KDE Model Only:

KEY SWITCH BYPASS [Maintained Unlock] (Green LED Solid)



Door Closed

Door has been opened

The door is unlocked indefinitely. To return to Armed Mode, close the door and turn the keyswitch to RESET or enter the Reset Code "11✱" on the keypad.

Keypad Programming

KEYPAD STATUS LEDS

GREEN Steady : Power on, No errors, No outputs are active

Fast Flash : No errors, At least one output is active

RED Steady : General error, invalid code entered

YELLOW Flash : For ADA requirements, it will light each time a key is pressed

Slow Flash : Keypad is in Programming Mode

FACTORY PROGRAMMED CODES

User No.	Pin Code	Output Code	Function
01	1234✱	NA	Master Code (default)
02	11✱	2	Reset
03	22✱	3	Authorized Exit (Rex)
04	33✱	4	Bypass

If the factory programmed codes are acceptable for your installation, no additional programming is required.

Changing the Master Code

User 1 is always used as the Master Code and is required to access keypad programming. The Factory Default Master Code is "1234 ". It is strongly recommended that a new Master Code is assigned after installation. WRITE DOWN THE NEW CODE. If the master code is lost, you must use the keypad reset jumper on the main circuit board to enter programming mode by using the Default Master Code.

To Change the Master Code (User 1)
1) Enter Programming Mode: Press 99# Master Code✱.
2) Assign new Master Code : Press 1# 01# New Pin Code# Output Relay #✱.
For example: 99# 1234✱1# 01# 3871# 0#✱ changes the Master code from 1234 to 3871.
3) Press ✱✱ to exit programming mode.

Entering Programming Mode

Press 99# Master Code✱.
For example: 99# 1234✱ Enters programming mode using the Default Master Code.

Adding a User / Changing User Pin Codes (Option 1)

Output Relay Codes
2= Reset
3= Authorized Exit
4= Bypass

To add a user:
Press 1# User Number (2 digits)# New Pin Code# Output Relay #✱.
For example: 1# 05# 55# 3#✱ adds user 5's pin code as one that will activate authorized exit.

Deleting a User (Option 2)

To delete a user:
Press 2# User Number (2 digits)#✱.
For example: 2# 05#✱ deletes user 5.

Erase All Users (Option 8)

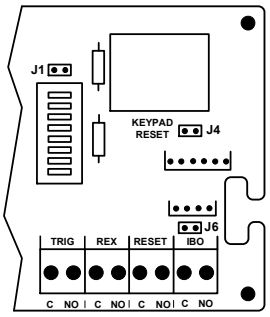
To **ERASE ALL USERS!!**
Press 8#✱.
All *users are erased and the Default Master Code is reset to* **1234***.*

Exit Programming Mode

Press ✱✱.

Returning the Keypad to Factory Default Settings

Short the **Keypad Reset [J4]** jumper terminal located on the main controller board.



Press 99# 1234✱8#✱.

Press 3#1#2#✱. Sets the Output #1 (Reset) for 2 seconds.
Press 3#2#2#✱. Sets the Output #2 (Auth Exit) for 2 seconds.
Press 3#3#0#✱. Sets the Output #3 (Bypass) for latching.

Press 1#02#11#2#✱. Adds user # 2 with a code of 11. [Reset]
Press 1#03#22#3#✱. Adds user # 3 with a code of 22. [Auth Exit]
Press 1#04#33#4#✱. Adds user # 4 with a code of 33. [Bypass]

Press ✱✱ to exit programming mode.

Remove the shorting jumper from the **KP RST** terminal.

MODELS



101-DE

1581DEV
1571DEV
1511DEV



101-KDE

1575DEU
1576DEU

DELAYED EGRESS CONTROLLER

101-DE Wall mount controller with keypad control and reset, 180mA @ 12/24 VDC.
101-KDE Wall mount controller with both keypad and key switch control and reset (less cylinder).

MAGNETIC LOCK WITH INTEGRATED ACTIVATION SENSOR

Specify 2 for pair of doors.
1511DEV Single, 1650 lbs. holding force, 670/350 mA @ 12/24 VDC, 628 std
1571DEV Single, 1200 lbs. holding force Energey Saver, 250/125 mA @ 12/24 VDC, 628 std
1581DEV Single, 650 lbs. holding force, 440/220 mA @ 12/24 VDC, 628 std
Outdoor Locks.
1575DEU Single outdoor magnetic lock with bond sensor, 630
1576DEU Single face drilled outdoor magnetic lock with bond sensor, 630

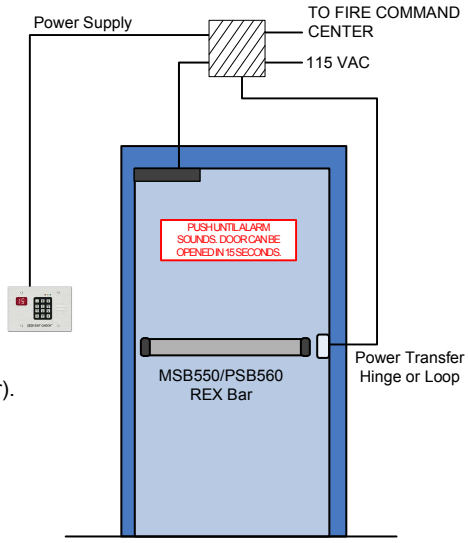
Lock Finish

Not available with outdoor lock
V 628 Clear Anodized Aluminum *(Std)*
Y Black Anodized
X Dark Bronze Power Coat (313/613 equal)

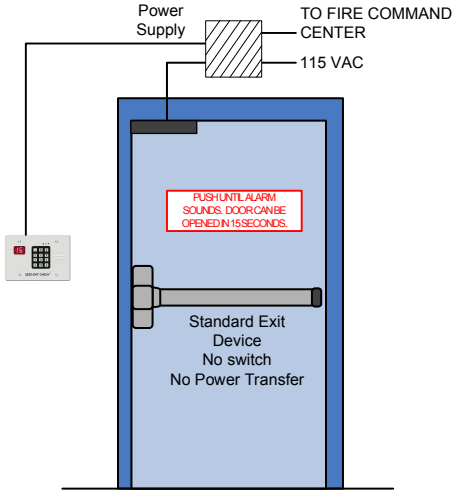
Optional Outputs

B Magnetic Bond sensor, indicates locked with full holding force, low holding force, unlocked, tampering and obstructions (1581DEV SPST only).
D Door position sensor, indicates door open and door closed. Commonly used to verify egress after alarm and exit delay activation. Not available with 1581DE, 1576DE or 1575DE.
VI Spanish, or English and Spanish, or English and French verbal announcement.
VIC Custom verbal announcement *(minimum 10 piece purchase)*.

Door Without Latch Assembly
Activation By Sure Exit® Push Bar



Door With Latch Assembly
Activation By Door Movement



ACCESSORIES







MSB550 Mechanical REX Exit bar for activation of locks on doors without latch assemblies.
PSB560 Sure Exit® REX sensor bar for activation of locks on doors without latch assemblies
101-SP External 15W speaker connects directly to 101-DE for enhanced decibels on site or remote voice message annunciation.
101-4AM Four door station with LED's and alarm tone for remote annunciation (indoor use).
TCC Desk top console for remote control and annunciation of 4 – 12 doors.
101-1AK Outdoor reset/bypass key switch with LED and Audible annunciator. 2-gang outdoor box required. (Interior 101-DE and 1575DE or 1576DE outdoor magnetic lock required). (Cylinder not included).
DEC-J 3-gang Interior surface mount box for 101-DE 1, 2 or 3 gang box mounted.
SHD-J Shroud for surface mount box DEC-J outdoor use DEC-J required.



DEC-J



101-DE, DEC-J, SHD-J

Only 101DE/KDE have been UL Listed as Special Locking Arrangements to UL standard 294 and NFPA 101.

SPECIFICATIONS

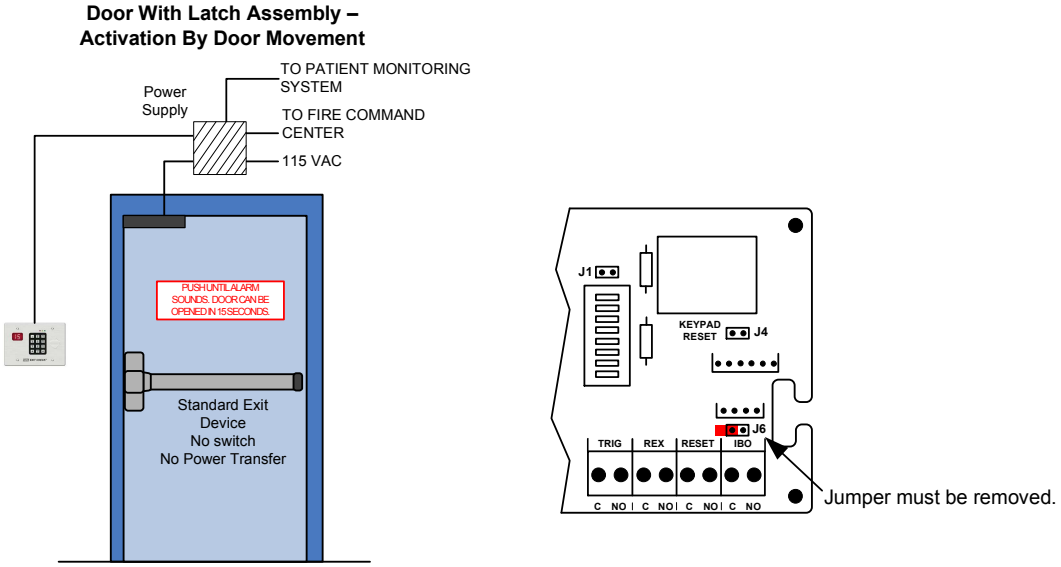
Inputs:
Voltage input: Auto sensing 12/24 VDC
Reset input: N/O, Dry
Rex input: N/O, Dry
Trigger: N/C or N/O, Dry
IBO input: N/O, Dry

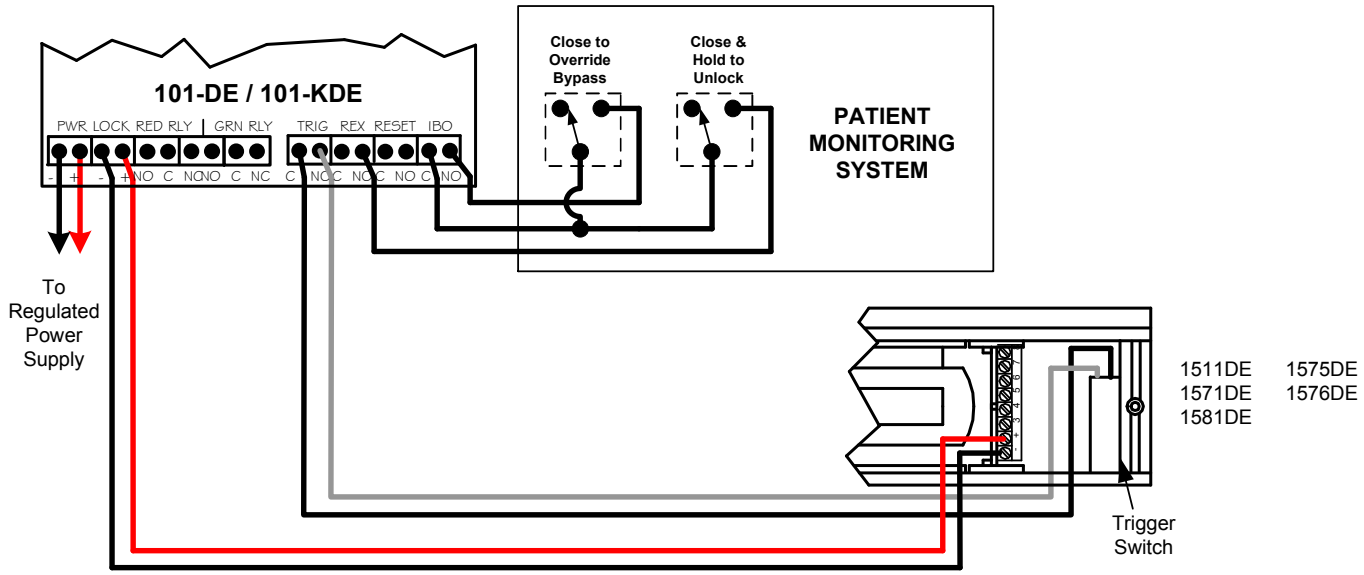
Monitoring Outputs:
Alarm Output:
1 Amp @ 30VDC SPDT, dry
Locked Output:
1 Amp @ 30VDC SPDT, dry

Mechanical Specifications:
Controller: 6.5" x 4.5" x 1.5" (165 x 114 x 38mm)
1581DE: 8.75" x 2.125" x 1.25" (222 x 54 x 32mm)
1571DE/1511DE: 11" x 2.75" x 1.562" (279 x 69.9 x 39.7mm)
1575DE/1576DE: 8.7" x 2.5" x 1.6" (221 x 63.5 x 41mm)

Connecting to a Infant/Patient Monitoring System

1. Locate jumper [J6] (above the IBO input). Verify that it is NOT installed across both pins.
2. Close AND hold the REX input. The 101-DE will be in Bypass Mode and will be unlocked.
3. Whenever the IBO input is closed AND held, the 101-DE will immediately relock and rearm. Egress is possible by activating the Exit Check's trigger input and initiating the irreversible 15 or 30 second unlock cycle.
4. Releasing the IBO input will return the 101-DE to the Bypass Mode.
5. Releasing the REX input will rearm the system.
6. Upon power-up, you must manually reset the lock to activate the IBO input.





Connection to a Infant/Patient Monitoring System has not been investigated by UL.

Connecting Optional Accessories

