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## CX-33 Advanced Logic Relay Installation Instructions

Firmware Ver. 2.6

## Section 1

## General Description

The CX-33 is the latest generation multi-purpose logic control. It is designed to be versatile yet user friendly with easy to understand terminology and adjustments. The 14 different operating modes ensure it will be useful in nearly every automatic door or security application.

A total of 5 inputs ( 4 dry, and one wet or powered) allow for more flexibility in wiring to different types of activating devices. The wet or powered input is useful when connecting 3 -terminal radio receivers, to interfone panels, or for connecting to motors when used as a Lock-out Relay.

The 3 buttons for mode selection, including separate UP and DOWN buttons, offer fast and easy programming. The large 3 -segment display is the easiest to view and understand in the industry.

A total of 3 heavy-duty 3 amp relays allow for varied sequencing applications. For example, in restroom use, the third relay is ideal for "Occupied" or "In Use" signage. (Note: ouputs are dry, not powered.)

## Section 2

## Installation

IMPORTANT: Do not apply power to the unit until you have read the instructions fully and made the required adjustments.

## Mounting

The CX-33 should be mounted in a clean dry location out of direct contact with the elements. Suitable locations include inside a metal enclosure, operator header, or above a false ceiling.

The Display \& LED's are visible through the clear plastic case, which also has cutouts for the programming buttons and terminal strips. Once the unit has been wired and adjusted, it may be tucked up into the operator header or affixed using the supplied Velcro or 2 sheet metal screws.

## Wiring

Wiring of this unit is dependent on the mode desired, however the following commonalities apply:

The unit will operate on 12 or 24 volts, AC or DC. Connect to Terminals $1 \& 2$, which are non-polarity sensitive.

NOTE: We highly recommend the use of a regulated power supply when powering equipment in certain modes such as the barrier-free washroom application where the strike power may be maintained from a few minutes to many hours. We offer a low-cost board-only regulated power supply - CX-PS13, which will supply clean, filtered \& regulated 12 or 24VDC power for the strike and CX-33.

## General Programming Instructions

To enter the program mode, press the MENU button. The current operating mode will display. Each time you press the MENU button, the CX-33 will advance \& cycle through all 8 menu options. These are:

1. Mode (from 1-13)
2. Hold 1 = Relay 1 hold time
3. Delay $1=$ Time from input ON until Relay 2 activates
4. Hold $2=$ Relay 2 hold time.
5. Delay $2=$ Depends on mode
6. Hold $3=$ Relay 3 hold time
7. Display Option $=$ Sets display to be ON or OFF during Operating mode
8. $A=$ Delay on Activate. If other than zero is selected, then the input must be held in for the time period chosen before the CX- 33 will activate.

The UP and DOWN buttons will change the value of each MENU item. (Holding down a button down will increase the speed of scrolling).

If you do not touch any button for 10 seconds, the CX-33 will return to Operating Mode. If you return to Program Mode within 10 minutes, you can resume where you left off. Otherwise the program will start with the first menu item, which is Mode.

## Section 3

## Set-up Instructions <br> Applications:

3-Relay Switching Network

(Mode 1) Proceed to section 3A
on Page 2
2-Door Airlock (Timed)
(Mode 2) Proceed to section 3B
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2 Door Airlock (Latching)
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Access Control Applications
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Restroom Control (normally unlocked)
(Mode 7) Proceed to section 3G on Page 4
Restroom Control (normally locked)
(Mode 8) Proceed to section 3H
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## Section 3A

## 3 Relay Switching network (Mode 1)

This mode sequences all 3 relays (in one direction), using what we call "mixed mode triggering". Some popular applications include basic strike and operator installations, smoke evacuation, stairwell doors, or latching applications.

Refer to Diagram 1, (Page 9) for the following connections.
For momentary devices, wire to either DRY 1 or WET 1 input terminals. Wire a maintained device to DRY 3 input if you wish to hold relay 1 (a lock for example). Wire a maintained device to DRY 2 input if you wish to hold relays 2 \& 3 (ie -door operators).

Input number 4 is for latching applications. Each momentary switch closure will toggle relays $2 \& 3$.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

If Hold time is $=0$, the relay doesn't turn on. If Delay time $=0$, then the relay comes on immediately. For example, if you wish Relay 2 \& 3 to both come on at the same time, set D2 time to zero (0.0).

In addition, you can add a "Delay-on-activate" (or nuisance delay) to this mode by setting time via Step 8 of the Program Mode. If this feature is used, any input will have to be held for at least the time indicated on the display before the CX-33 will activate. If this feature is not wanted, set the time to zero (0.0)

Once the desired operation is achieved, proceed to
Section 4, Pg 7 for System Inspection Instructions.

## Section 3B

## 2 Door Timed Airlock (Mode 2)

Utilizing door position switches (Camden CX-MDC or equivalent), this mode ensures that only one door in an airlock will be open at a time. Each output hold time is adjustable from 1 - 50 seconds. 3 outputs allow for one of the doors to have an electric lock and a door operator. (Alternatively, the doors could have locks only and no operators.)

Refer to Diagram 2, (Page 10) for the following connections.
Wire the activating device(s) for Door \#1 to DRY 1 terminals. Wire the activating device(s) for Door \#2 to DRY 2 terminals. Wire the respective door contact switches to Inputs 3 \& 4. (The contact circuit must be closed when the door is closed).

Wire the outputs as shown.. If a lock is not used, set H1 \& D1 timers to zero (0.0), and Relay 1 will be ignored.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3C

## 2 Door Latching Airlock <br> (Mode 3)

Utilizing door position switches, (Camden CX-MDC, or equivalent) this mode ensures that only one door in an airlock will be open at a time. Providing the opposite door is closed, one switch activation will latch open (unlock) the door, and the second activation on the same input will allow the door to close (lock). 3 outputs allow for one of the doors to have an electric lock and a door operator. (Alternatively, the doors could have locks only and no operators.)

The CX-33 is unique in the industry because it also provides the ability to add an adjustable "Walk-away" time. If the door input has been activated but the door has not been opened, the relay will reset (re-lock). Both doors have their own respective adjustable timers. (If the time is set to zero, then this feature is disabled).

Refer to Diagram 3, (Page 11) for the following connections.
Wire the activating device(s) for Door \#1 to DRY 1 terminals. Wire the activating device(s) for Door \#2 to DRY 2 terminals. Wire the respective door contact switches to Inputs $3 \& 4$. (The contact circuit must be closed when the door is closed).

Wire the outputs as shown. If a lock is not used, set H1 \& D1 timers to zero (0.0), and Relay 1 will be ignored.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3D

## Bi-Directional Door Sequencer (Mode 4)

This mode sequences all 3 relays in both directions, also known as bi-directional door sequencing.

A basic 2-door sequencer with just two inputs and two outputs is shown in Diagram 4a (Page 12). A more complex sequencer utilizing 4 switch inputs, and allowing for one door with an electric lock is shown in Diagram 4b (Page 13).

DRY 1 or WET 1 inputs sequence Relay 1 to Relay 2 to Relay 3. DRY 2 input sequences Relay 3 to Relay 1 to Relay 2.

Input 3 only sequences Relay 1 to Relay 2, and Input 4 only activates Relay 3.

If a relay (Relay 1 for example) operation is not desired it can be turned off by setting the time delays to zero (in this example H1 \& D1).

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

In addition, you can add a "Delay-on-activate" (or nuisance delay) to this mode by setting time via Step 8 of the Program Mode. If this feature is used, any input will have to be held for at least the time indicated on the display before the CX-33 will activate. If this feature is not wanted, set the time to zero (0.0)

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3E

## Apartment/Condo Application (Mode 5)

This application is for a switching network (or make/break relay) that controls an apartment or condo front door. When a visitor arrives and calls a tenant on the phone entry system the tenant can "buzz down" and unlock the door for the visitor. During this operation, a courtesy switch is put into the circuit enabling the user to press the switch and open the door. Once the lock releases, the courtesy switch is removed from the circuit. The inside switch will always unlock and open the door.

Refer to Diagram 5, (Page 14) for the following connections.
The CX-33 allows for dry and/or powered momentary connections to the Interphone panel (DRY 1 and WET inputs respectively). Wire the "Courtesy Switch" to DRY 2 input. Wire the inside switch to DRY 3 input. An optional Key switch can be added for use by tenants - wire to either DRY 1 (to unlock only), or DRY 3 (to unlock and open door). An optional Fire Panel Input can be connected to DRY 4.

Output \#1 is for the electric lock, and Output \#2 is for the door operator.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

In addition, you can add a "Delay-on-activate" (or nuisance delay) to this mode by setting time via Step 8 of the Program Mode. If this feature is used, any input will have to be held
for at least the time indicated on the display before the CX-33 will activate. If this feature is not wanted, set the time to zero (0.0)

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3F

## Access Control Application (Mode 6)

This application is for a control relay that takes a maintained signal and unlocks a door for an extended time. During this time, an exterior momentary switch is put into the circuit to allow the door to activated automatically. After the access system or time-clock has released the signal, the door relocks, and the exterior switch is removed from the circuit. At any time, the inside switch will unlock and open the door.

Refer to Diagram 6, (Page 15) for the following connections.
The CX-33 allows for dry and/or powered maintained connections to the Access System / time clock (DRY 1 and/ or WET inputs respectively). Wire the Exterior momentary Switch" to DRY 2 input. Wire the inside momentary switch to DRY 3 input. An optional Key switch can be added for use by tenants - wire to either DRY 1 (to unlock only), or DRY 3 (to unlock and open door). DRY 4 Input is used if you wish to connect a Fire Alarm Panel.

Output \#1 is for the electric lock, and Output \#2 is for the door operator.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

In addition, you can add a "Delay-on-activate" (or nuisance delay) to this mode by setting time via Step 8 of the Program Mode. If this feature is used, any input will have to be held for at least the time indicated on the display before the CX-33 will activate. If this feature is not wanted, set the time to zero (0.0)

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3G

## Normally Unlocked Restroom

## (Mode 7)

In this mode, control of a single occupant barrier-free washroom is obtained. It allows the user to lock and secure the door from the inside by depressing a Push-to-Lock button
(once door is in the closed position). The exterior wall switch is removed electronically from the circuit.

To exit the washroom, simply exit manually via the store-room function lever-handle set (the Door Contact Switch resets the relay), or, press the interior wall switch to unlock and signal the door operator. The door remains unlocked upon closure (see Mode 8 for normally locked doors). The CX-33 also provides a relay dedicated for "Occupied" \& "Door Locked" signage.

Refer to Diagram 7, (Page 16) for the following connections.
The outside wall switch, inside wall switch, and Push-to-Lock switch are all N.O. momentary switches. Connect as shown. The Door Contact Switch circuit must be closed when the door is closed and open when the door opens.

A fail-safe electric strike is recommended and connects to Relay 1 (although a fail-secure strike can also be used). The automatic door operator connects to Relay 2, and the signage connects to Relay 3. (As a reminder, no power is provided on the relay outputs - they are dry contacts).

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3H

## Normally Locked Restroom (Mode 8)

In this mode, control of a normally locked single occupant barrier-free washroom is obtained. It allows the user to secure the door from the inside by depressing a Push-to-Lock button. The exterior means of ingress is removed electronically from the circuit.

To exit the washroom, simply exit manually via the store-room function lever-handle set (the Door Contact Switch resets the relay), or, press the interior wall switch to unlock and signal the door operator. Exiting the washroom resets the relay, and the door is re-locked upon closure.

The CX-33 also provides a relay dedicated for "Occupied \& "Door Locked" signage (recommended).

Refer to Diagram 8, (Page 17) for the following connections.
The outside means of ingress - Keypad, Key switch, or

Prox-reader, plus the inside wall switch, and Push-to-Lock switch are all N.O. momentary devices. Connect as shown. The Door Contact circuit must be closed when the door is closed and open when the door opens.

A fail-secure electric strike is typically used, although a fail-safe strike can also be used. Connect to Relay 1. The automatic door operator connects to Relay 2, and the signage connects to Relay 3. (As a reminder, no power is provided on the relay outputs - they are dry contacts).

As a safety feature, the door cannot be "secured" via the "Push-to-Lock" button until the door is completely closed (to prevent kids from pressing the lock button and running away).

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3J

## Lock-out Relay Plus (Mode 9)

This mode combines, for the first time, a lintel mount safety sensor lock-out relay (LOR) with a switching network (aka make/break relay). The voltage sensing circuit can be utilized with motors/controls up to 120 volts AC/DC. The adjustable hold timer (lock-out) is then matched to the door closing time. "Cancellation" inputs are provided for connection to railmounted door beams.

In addition, three inputs and two relays are provided for the switching network function.

Refer to Diagram 9, (Page 18) for the following connections.

## LOR Circuit:

A parallel connection is made to the two motor wires running from the Operator (motor) to its control. If the motor is AC, then polarity is not an issue. The CX-33 is triggered by the AC voltage going from high to low.

If the motor is $D C$, then the wires are polarity sensitive. If Relay 3 LED doesn't illuminate when the door is closing, then just reverse the two terminal connections at the CX-33.

Input 1 is for the N.O. relay contacts of the photo beam. The beams are typically mounted at the end of guide rails and designed to reset the LOR in the event anyone should walk
into the swing path when the door is in the closing cycle.
Relay 3 output is to be connected in SERIES with the safety device and the Safety Circuit of the operator.

Optional Switching Network:
Wire the activating device(s) to DRY 1, DRY 2 or DRY 3 terminals. Wire the outputs as shown to Relays $1 \& 2$.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4,
Pg 7 for System Inspection Instructions.

## Section 3K

## Low Energy SAM Plus <br> (Mode 10)

This mode combines a Low-Energy Secondary Activation Module (SAM) with a switching network (aka make/break relay). Utilizing a door position switch input, this mode enables or disables a door mounted presence sensor. The sensor is put into the circuit when a wall switch is pressed (a Knowing Act). This allows an object or person in the path of the door to be detected. The door will not close until the object or person leaves the door swing path. The sensor remains in the circuit until the door is closed.

When the door is opened manually, the safety sensor is not in the circuit and the door operator functions as a manual door closer.

A unique feature of the CX-33 is the automatic reset feature. If a switch has been pressed, but the door has not opened within 60 seconds (because it is locked, for instance), the unit will reset. This will save wear and tear on the lock and operator.

In addition, one input and two relays are provided for the switching network function.

Refer to Diagram 10, (Page 19) for the following connections.

## SAM Circuit:

Connect the momentary activating switch(es) to DRY 3 input. The door mounted sensor connects to DRY 2 input, and the magnetic contact switch connects to DRY 4 input. The contact switch circuit must be closed when the door is closed, and open when the door opens.

Relay 3 output is to be connected to the Activate circuit of the door operator.

## Optional Switching Network:

Wire the activating device(s) to DRY 1 terminals. Wire the outputs as shown to Relays $1 \& 2$.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3L

## Mag Lock with N.O. Fire Alarm (Mode 11)

Commonly seen in hospital corridors, this version of a switching network (make/break relay) is specifically designed for doors with mag locks.

A wall switch signals the relay, which unlocks, and opens the door for an adjustable time. Utilizing the door position switch, the CX-33 will not re-apply power to the magnetic lock until the door is fully closed. The relay also provides for a normally open Fire Alarm input, which when activated, unlocks the door and disables the wall switch inputs.

Refer to Diagram 11, (Page 20) for the following connections:
Momentary switches connect to DRY 1 and/or WET terminals. Maintained devices connect to DRY 2 input (optional). The N.O. Fire Alarm signal is wired to DRY 3 input, and the Door Position Switch connects to DRY 4 input. The circuit must be closed when the door is closed, and open when the door opens.

The magnetic lock connects to the Common and N.C terminals of Relay 1. The door operator connects to the Common and N.O. terminals of Relay 2. Relay 3 output is optional.

Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Timing adjustments may need to be made.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, Pg 7 for System Inspection Instructions.

## Section 3M

Mag Lock with N.C. Fire Alarm (Mode 12)

This mode is identical to Mode 11 (Section 3L) except the Fire Alarm input is a N.C. circuit (rather than N.O.). See previous section for wiring and adjustments, \& refer to Diagram 12, (Page 21).

## Section 3N

## Special Purpose Sequencer

## (Mode 13)

In this mode, Input 1 sequences Relays 1 \& 2, Input 2 sequences Relays $2 \& 3$. Input 3 sequences Relays

1-2-3, and Input 4 sequences Relays 1-3-2.
Refer to Diagram 13 (Page 22) for connections. Once input and output connections are made, program the unit according to the General Programming Instructions on page 1, and walktest the installation. Perform any timing adjustments.

In addition, you can add a "Delay-on-activate" (or nuisance delay) to this mode by setting time via Step 8 of the Program Mode. If this feature is used, any input will have to be held for at least the time indicated on the display before the CX-33 will activate. If this feature is not wanted, set the time to zero (0.0)

Once the desired operation is achieved, proceed to Section 4, for System Inspection Instructions.

## Section 3P

## Delayed Egress (Mode 14)

Refer to Diagram 14 (Page 23) for connections. In this unique mode, a Switch connected to Input 1 will cause Relay 1 to fire immediately, but not allow Relays $2 \& 3$ to fire until a pre-set elapsed time has expired. The user must push and hold the switch for this length of time. A Fire alarm input is provided DRY 2 or WET 1. A Bypass or Shunt Keyswitch is connected to DRY 3, and a N/C door position switch is connected to DRY 4.

Output 1 is for a local siren, Output 2 is for the electric lock, and Output 3 is for status monitoring.

Once connections are made, power up and adjust H 1 time for the length of time switch 1 must be pressed. H 2 time is the minimum ON time for Relay 2 (lock).

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, System Inspection Instructions.

## Section 3Q

## Lock Down Mode (Mode 7)

In this mode, during normal operation the all-active switches (both connected to Input 1) trigger the auto door operator. When desired, a "Lock-Down" switch located remotely (in a school office for instance) will activate the door lock, and disable the door switch input. A separate output can drive a status LED / light. When the "Reset" button (connected to Input 4) is momentarily depressed the door unlocks, and the system resets.

Refer to Diagram 15 (page 24) for connections. The allactive switches and Lock-down Switch are all normally open switches. The RESET switch is normally closed. Connect as shown. A fail-safe electric strike, or mag lock should be used. Input 2 allows for an optional secure entry keypad (or similar), or connection to a fire alarm.

Once connections are made, power up and program the unit according to the General Programming Instructions on page 1, and walk-test the installation. Adjust H 1 time for the lock time, D1 for the time between the lock and operator, and H2 for the time delay for the auto door operator. D2 and H3 are not used in this mode.

It is NOT recommended to add the "Delay-on-activate" (or nuisance delay) feature in this mode!

Once the desired operation is achieved, proceed to Section 4, System Inspection Instructions.

## Section 4

## System Inspection Instructions

After the Installation and operational check of the system:

1. Place any applicable labels on the door (as per ANSI A156.10 or A156.19 guidelines).
2. Instruct the owner on door system operation and how to walk-test it. This should be checked on a daily basis.
3. Instruct the owner on what to do if the door or any of its components become damaged.
4. Strongly recommend to the owner that the complete entry be inspected twice a year as part of the service agreement, or at least once per year as per AAADM guidelines.

## Section 5

## Technical Data

Model
Dimensions
Enclosure
Mounting
Operating Temp
Display
Programming
Operating voltage
Current Draw
Inputs
$\square$

Response time
Relay Output
Relay contact rating
Time Delays

CX-33
$6 " \times 2 " \times 7 / 8 "(152 \times 51 \times 22 \mathrm{~mm})$ Clear plastic case
(2) \#8 screws or Velcro -22 F to +185 F (-30C to +85 C )
Blue multi-segment LED
MENU, UP \& DOWN buttons
12/24 Volts, AC/DC 105 mA standby, 320 mA max.
4 x "dry" contacts; and
1 x "wet" contact (4.5-120 V
AC/DC, Optically isolated, non-polarity sensitive)
0.5 seconds

3 x Form C (SPDT)
3 amps @ 24 VDC
Hold 1 timer: 0-50 seconds
Delay 1 timer: $0-15$ seconds
Hold 2 timer: 0 - 50 seconds
Delay 2 timer: $0-60$ seconds
Hold 3 timer: 0 - 50 seconds

## Section 6

## Warranty

Camden Door Controls guarantees the CX-33 to be free from manufacturing defects for 3 years from date of sale.
If during the first 3 years the CX-33 fails to perform correctly, it may be returned to our factory where it will be repaired or replaced (at our discretion) without charge. Except as stated herein, Camden extends no warranties expressed or implied regarding function, performance or service.


| Connector | Terminal | Label | Function |
| :---: | :---: | :---: | :---: |
| P1 | 1 | Power Input | 12/24 Volts AC/DC <br> Non-polarized |
|  | 2 | 12/24V AC/DC |  |
|  | 3 | Dry 1 | Non-powered Input 1 |
|  | 4 | Input |  |
|  | 5 | Dry 2 | Non-powered Input 2 |
|  | 6 | Input |  |
|  | 7 | Dry 3 | Non-powered Input 3 |
|  | 8 | Input |  |
|  | 9 | Dry 4 | Non-powered Input 4 |
|  | 10 | Input |  |
|  | 11 | +Wet | 5 to 120 Volts AC/DC Powered input |
|  | 12 | -Input |  |
|  |  |  |  |
| P2 | 1 | N/C | (Relay 1) Output 1 |
|  | 2 | Common |  |
|  | 3 | N/O |  |
|  | 4 | N/C | (Relay 2) Output 2 |
|  | 5 | Common |  |
|  | 6 | N/O |  |
|  | 7 | N/C | (Relay \#) Output 3 |
|  | 8 | Common |  |
|  | 9 | N/O |  |













1. Solid lines are the Secondary Activation Mode (SAM) circuit. Dashed lines are switching network
circuit and are optional. 2. SAM Circuit complies with ANSI A156.19 when
wired as shown.
2. Sensor is only active after Switch is pressed,
3. The CX-33 also resets after 60 seconds if the
door never opens. (safety feature)
5 . Operator Control box terminals: $A=$ Active, $\mathrm{C}=$ Common, $\mathrm{S}=$ Safety.

Door Mounted Sensor



| SCALE: NONE | DRAWN BY: DGW | DATE: 08/15/13 | REVISED: |
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(Mode 10) Low Energy S.A.M. plus Switching Network Wiring Diagram

| DRAWING No: DRG-CX-33-10 | FILENAME: CX-33 Diagram 10.vsd |
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