

Electrified Locks, Relays and Timers

CX-WC11-PS-M2 Series Restroom Control

INSTALLATION INSTRUCTIONS

THIS PACKAGE INCLUDES:

- | | |
|--|------------------------|
| 1 - CX-33PS Logic Control Relay & Power Supply | 1 - WC 7" x 5" Sign |
| 1 - CM-AF500 Illuminated Annunciator | 1 - Transformer |
| 1 - CM-400R/8 Pushbutton Switch | 2 - CM-45/4 (ASM, AFM) |
| 1 - CX-ED1689L-4 Electric Strike | |
| 1 - Magnetic Contact | |



1. GENERAL DESCRIPTION

The CX-WC11-PS-M2 Restroom Control Kit allows access in and out of a restroom with the ability to secure the door once inside. The Kit also provides annunciation by including an Occupied light. The designation of “PS” in the part number reflects that this kit now comes pre-wired in a metal enclosure with a power supply which is ready to accept all field wiring.

The CX-WC11-PS-M2 Restroom Control Kit is controlled by Camden’s advanced relay logic controller CX-33. The CX-WC11-PS-M2 has two modes. One is Mode 7 for a normally unlocked restroom and the other is Mode 8 for a normally locked restroom. In Mode 7 when the exterior PUSH to OPEN button is pressed it will trigger the door operator to open the door. In Mode 8 when the exterior PUSH to OPEN button is pressed it will unlock the strike and trigger the door operator to open the door. Once in the restroom and the PUSH to LOCK button is pressed, it will keep the door locked in either mode, and disable the exterior PUSH to OPEN button, as well as, providing annunciation with an Occupied light. When exiting the restroom, you can either press the inside PUSH to OPEN button to unlock the door and open the door or you can push the crash bar, paddle or turn the knobset to break the door contact circuit, which will also unlock the door and reset the system. The Occupied light will turn off, signaling the restroom is available.

2. INSTALLATION

Operation at a Glance

When the exterior PUSH TO OPEN button is pressed it will send a momentary closure to the outside PUSH TO OPEN terminal on the CX-WC11-PS-M2 allowing the door to swing open. When the interior PUSH TO LOCK button is pressed it will send a momentary closure to the to inside PUSH TO LOCK terminal on the CX-WC11-PS-M2 causing it to lock the restroom and turn on the Occupied

light. When the inside PUSH TO OPEN button is pressed it will send a momentary closure to the inside PUSH TO OPEN terminal on the CX-WC11-PS-M2 causing it to unlock the door and open it. The Occupied light will now turn off signalling the restroom is now vacant. The restroom can also be unlocked by opening the door from the inside which will break the door contact circuit causing the CX-WC11-PS-M2 to reset and unlock the door.

Mounting

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

The CX-WC11-PS-M2 cabinet should be mounted in a clean dry location out of direct contact with the elements.

Wiring the CX-WC11-PS-M2 Series Restroom Control Kit is as follows:

The CX-WC11-PS-M2 comes from Camden with the CX-33 pre-wired to a labeled set of two terminal strips. This will make the wiring of the push buttons easier since the wiring manual will no longer need to be directly referenced for termination points. A complete wiring diagram is adhered to the inside of the door to provide a layout of the wiring as a reference when wiring the field devices to the kit.

There are two terminal strips that mirror the locations on the CX-33. The left strip is used for power to the CX-33, the PUSH TO OPEN and PUSH TO LOCK buttons, the door position switch, and the Wet trigger. The right strip is for the outputs to drive the strike (Relay 1), door operator (Relay 2), Occupied light (Relay3), and to provide VDC power for the door strike.

Once all field devices are wired to the CX-WC11-PS-M2 then AC power can be wired in.

IMPORTANT: Confirm the electrical panels breaker you are going to be using is currently off. Do not wire the primary terminals of the transformer until the secondary terminals are connected first.

The supplied CX-TRX-5024 transformer will have its secondary terminals wired to the terminals on the top of the left terminal strip marked as “AC”. Next, wire the primary terminals to the AC feed to be used. Confirm your connections and apply power by turning on the electrical panels breaker.

Selecting a Mode

The CX-WC11-PS-M2 has two restroom applications built in (Mode 7 & 8). **The default mode for the CX-WC11-PS-M2 is Mode 7 (normally unlocked).**

Determining which mode is correct for you will be based on whether the restroom will be normally unlocked (Mode 7) or normally locked (Mode 8).

There are three LED displays that will allow you to see what mode you have selected when advancing through the modes. To change the mode of the CX-WC11-PS-M2 simply press the MENU button once and use the UP button to advance to the desired mode.

Editing the Settings for a Mode

Camden builds in typical times for lock release and door operator activation and is ready to use without changing any parameters.

If you need to change the timing or delay for an output, it can be done by pressing the “MENU” button within the mode you selected. Once the option is selected you can use the “UP or DOWN” buttons to select the timing needed. The first option (H & 1 flashing) will be how long relay 1 will be activated for (0-50 seconds). The second option (d & 1 flashing) will be how long to wait before activating relay 2 (0-15 seconds). The third option (H & 2 flashing) will be how long relay 2 will be activated for (0-50 seconds). The fourth option (d & 2 flashing) will be how long to wait before activating relay 3 (0-15 seconds). The fifth option (H & 3 flashing) will be how long relay 3 will be activated for (0-50 seconds). See chart below.

Factory Reset (Defaulting the CX-33)

To return the CX-33 back to its factory default settings you will need to remove power, then hold down the “MENU” button while powering up the CX-33. Once started you will see the firmware version listed then a number “1” will be displayed. Reconnect your power and press the “MENU” button once then use the “UP” or “DOWN” button to advance to the desired mode.

Fully test the operation of the CX-WC11-PS-M2 for proper functionality.

Figure 3.1 Adjusting the Settings in CX-33

Display (M)	Description (Mode you are in)	Parameters (1-15)
H, then 1	Relay 1 Hold Time	0.0 to 50 seconds
d, then 1	Relay 2 Delay Time	0.0 to 15 seconds
H, then 1	Relay 2 Hold Time	0.0 to 50 seconds
d, then 1	Relay 3 Delay Time	Depends on Mode
H, then 1	Relay 3 Hold Time	0.0 to 50 seconds
d	Sets the display ON or OFF during operating mode	ON or OFF
A	Input delay on Activate. If other than 0.0 is selected, the input must be held in for the time period chosen before the CX-33 will activate.	0.0 to 10 seconds
1	Set Dry Input 1 to activate on normally open or normally closed contact.	N/O OR N/C
2	Set Dry Input 2 to activate on normally open or normally closed contact.	N/O OR N/C
3	Set Dry Input 3 to activate on normally open or normally closed contact.	N/O OR N/C
4	Set Dry Input 4 to activate on normally open or normally closed contact.	N/O OR N/C
5	Set Dry Input 5 to activate on normally open or normally closed contact.	N/O OR N/C

CM-45/4 MOUNT INSTALLATION

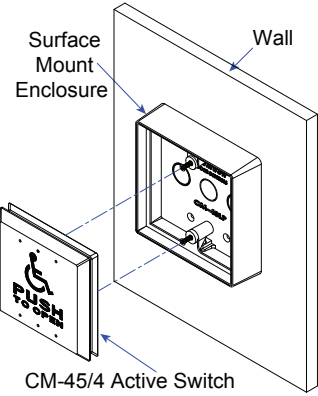
Surface Mount Installation

1. Position the back box (CM-43CBL) on the wall in the desired location and use the supplied #10 x 1 pan head screws with the green PVC anchors to mount the back box to the wall.

Note: the back box will need the screw holes drilled out prior to mounting it to the wall.

2. Screw in the supplied #6-32 screws only a few threads deep into the back box and fit in the assembled CM-45/4 by locating the holes on the back plate and sliding it down in place on the back box.

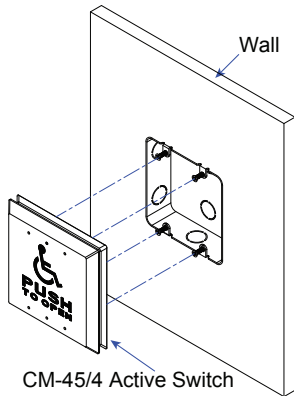
3. Fit the HEX key through the hole on the faceplate and completely tighten the #6-32 screws in place.



Flush Mount Installation

1. With the back box already roughed-in, screw in the supplied 6-32 screws only a few threads deep into the back box and fit in the assembled CM-45/4 by locating the holes on the back plate and sliding it down in place on the back box.

2. Fit the HEX key through the hole on the faceplate and completely tighten the #6-32 screws in place.



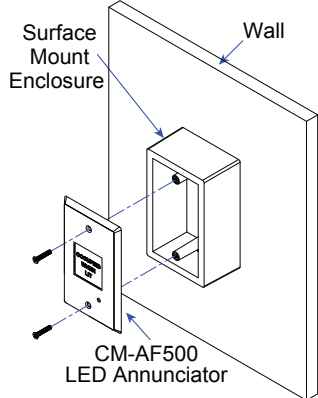
CM-AF500 MOUNT INSTALLATION

Surface Mount Installation

1. Position the back box (CM-34BL) on the wall in the desired location and use the supplied #10 x 1 pan head screws with the green PVC anchors to mount the back box to the wall.

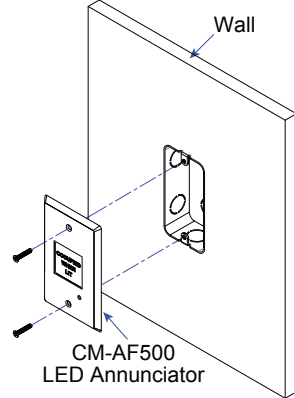
Note: the back box will need the screw holes drilled out prior to mounting it to the wall.

2. Position the CM-AF500 so that the holes on the faceplate line-up with the screw holes on the back box and tighten the supplied #6-32 screws securely in place.



Flush Mount Installation

1. With the back box already roughed-in, position the CM-AF500 so that the holes on the faceplate line-up with the screw holes on the back box and tighten the supplied #6-32 screws securely in place and completely tighten the #6-32 screws in place.



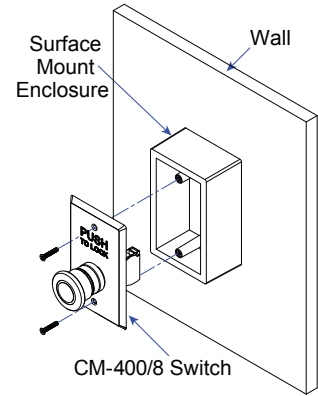
CM-400R/8 MOUNT INSTALLATION

Surface Mount Installation

1. Position the back box (CM-34BL) on the wall in the desired location and use the supplied #10 x 1 pan head screws with the green PVC anchors to mount the back box to the wall.

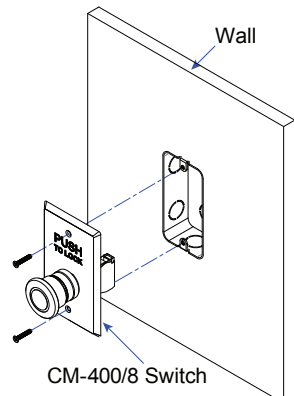
Note: the back box will need the screw holes drilled out prior to mounting it to the wall.

2. Position the CM-400R/8 so that the holes on the faceplate line-up with the screw holes on the back box and tighten the supplied #6-32 screws securely in place.



Flush Mount Installation

1. With the back box already roughed-in, position the CM-400R/8 so that the holes on the faceplate line-up with the screw holes on the back box and tighten the supplied #6-32 screws securely in place.



CX-ED1689L-4 ELECTRIC STRIKE INSTALLATION

INSTALLATION

1. Check that the door jamb has a cutout that fits the strike assembly. If not, refer to figure 4.2 for guidance.
2. Follow the instructions in section 7 to connect the wires.
3. Use the 12-24 x 1/2" machine screws provided to mount the strike onto the door jamb.
4. Test the fit of the electric strike in the mortise. If necessary, adjust it until it fits properly.

LATCH BOLT INSTALLATION

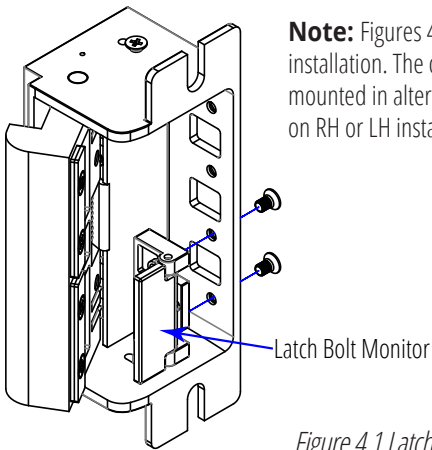


Figure 4.1 Latch bolt installation

ANSI FRAME

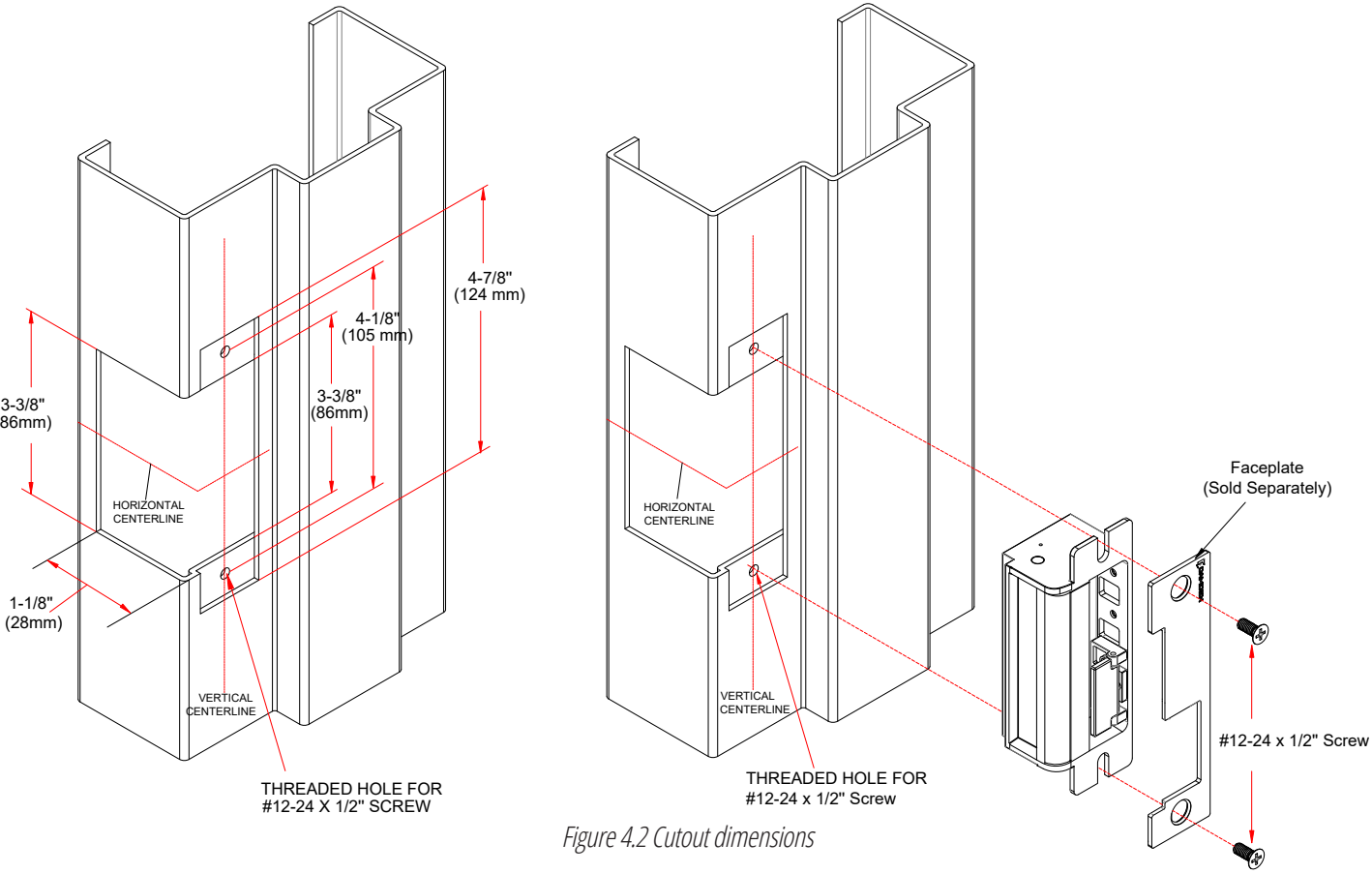


Figure 4.2 Cutout dimensions

GAP ADJUSTMENT BETWEEN KEEPER AND LATCH

The strike comes with four keeper shims included in the package for adjusting the gap between the keeper and latch.

To modify the gap,

1. First loosen and remove the two set screws that secure the keeper shims (see Figure 5.1).
2. Add or remove shims as needed to achieve the desired gap between the latch and keeper.
3. Once the gap is adjusted, securely tighten the two set screws to keep the shims in place.

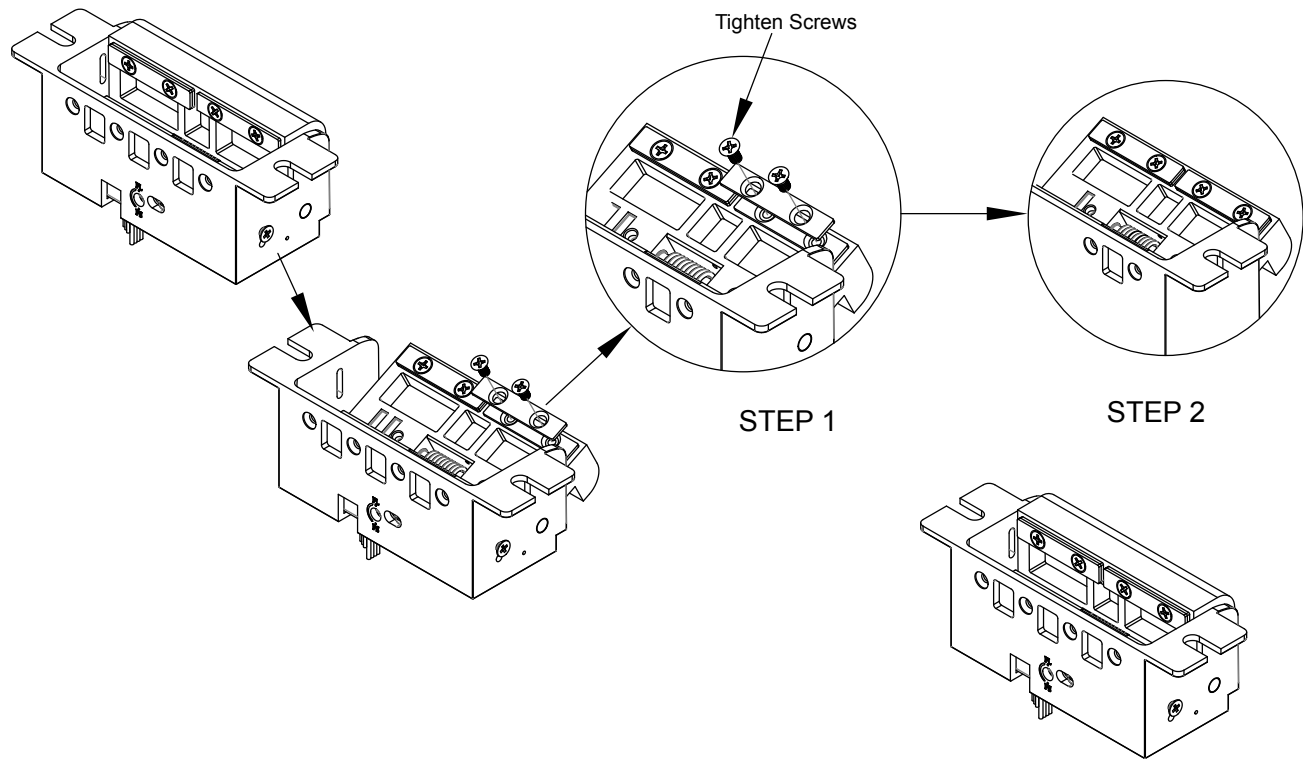


Figure 5.1 Gap adjustment

6. CONNECTION

POWER	
12VDC	24VDC
Red/Black: +12V	Red: +24
Blue/Green: Ground	Green: Ground

A varistor is provided to protect/prevent strike from voltage spikes. Connect varistor between input wires. (See Figure 6.1)

Note: For UL 294 / UL 1034 compliance, the door strikes are to be powered via a UL 294/ UL 603 class 2 power limited output from a control panel and or power supply. Furthermore, when powered by AC/DC the units shall use a UL regulated UL 294/ UL 603 power limited class 2 output rated 12/24V with AC on indicator.

Latch Bolt Monitor

This SPST monitor provides position status for the lockset latch bolt. When the latch is engaged, this monitor will provide a contact closure between the COM (white) and NO (purple) wires.

Strike Monitor Operation

The Strike Monitor provides status information for the operation of the strike. When the strike is activated this Form C monitor changes state.

Door Contact

The provided concealed door contact provides the ability to monitor the status of the door in conjunction with the latch bolt monitor. The door contact can be monitored separately or can be connected in series with the latch bolt monitor. The door contact operates with the same logic as the latch bolt monitors. It provides an OPEN connection when the door is open and a CLOSED connection when the door is closed.

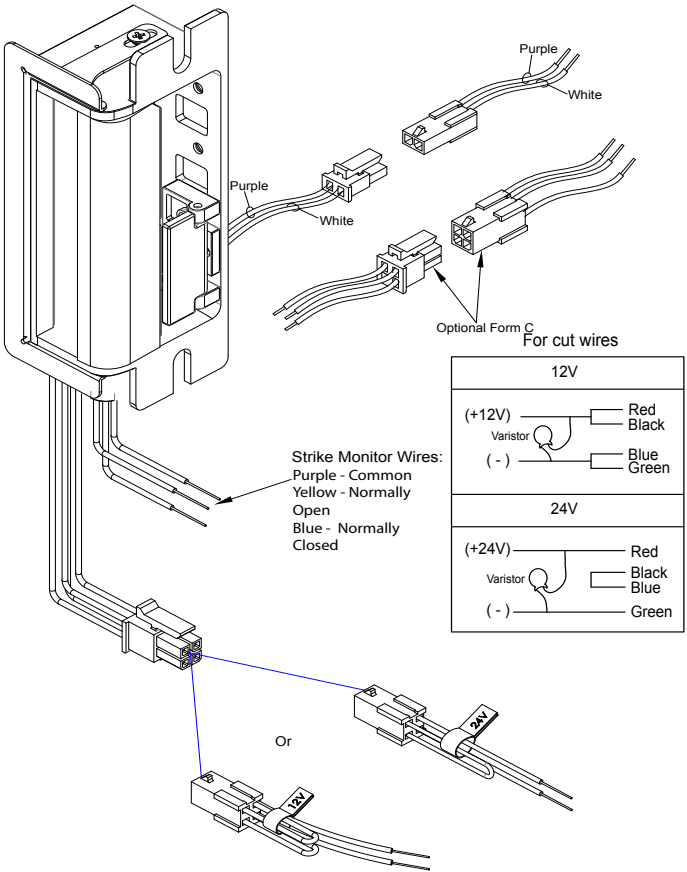


Figure 6.1 Bolt connection options

7. OPERATION

The strike is designed to operate in fail-secure mode by default. However, if needed, it can be changed to fail-safe mode by adjusting the mode screw as follows (See Figure 7.1):

- 1. Loosen the set screw.
- 2. Turn the mode screw counterclockwise (CCW) to enable fail-safe mode or clockwise (CW) to enable fail-secure mode.
- 3. Tighten the set screw.

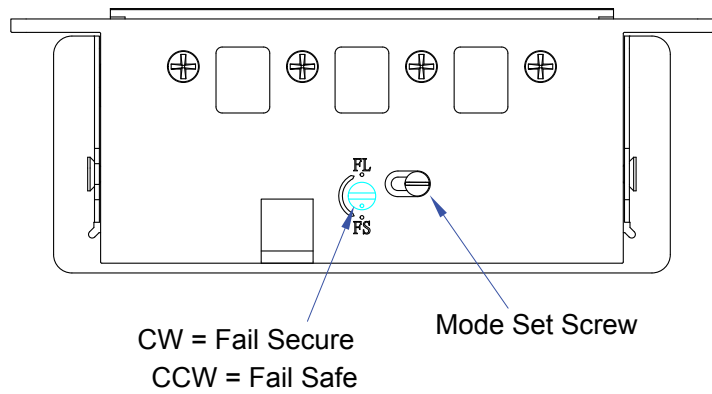


Figure 7.1 Strike operation from Fail Secure to Fail Safe and vice-versa

ORDERING INFORMATION FOR REPLACEMENT PARTS

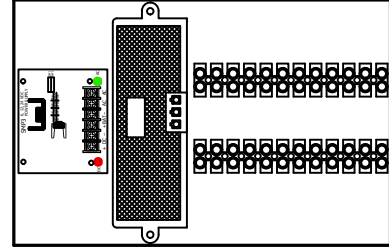
Item	Part Number	Description
1	60-31A037	Red/Green Aura PC Board
2	60-42C012	Square Aura Insert
3	60-40E033	Advanced Logic Control Relay and 2 Amp Power Supply in pre-wired metal cabinet
4	CX-MDA	Magnetic Door Contact
5	60-42C019	Mounting Box, Flush Aura Enclosure. Flame/Impact Resistant Black Polymer (ABS) 6-1/2"W X 6-1/2"H X 2"D
6	60-42C010	Mounting Box, Surface Aura Enclosure. Flame/Impact Resistant Black Polymer (ABS) 5-1/4"W X 5-1/4"H X 2"D
7	60-81C021	English Self-Adhesive Vinyl Sign "WAIT FOR DOOR TO CLOSE"

Notes :

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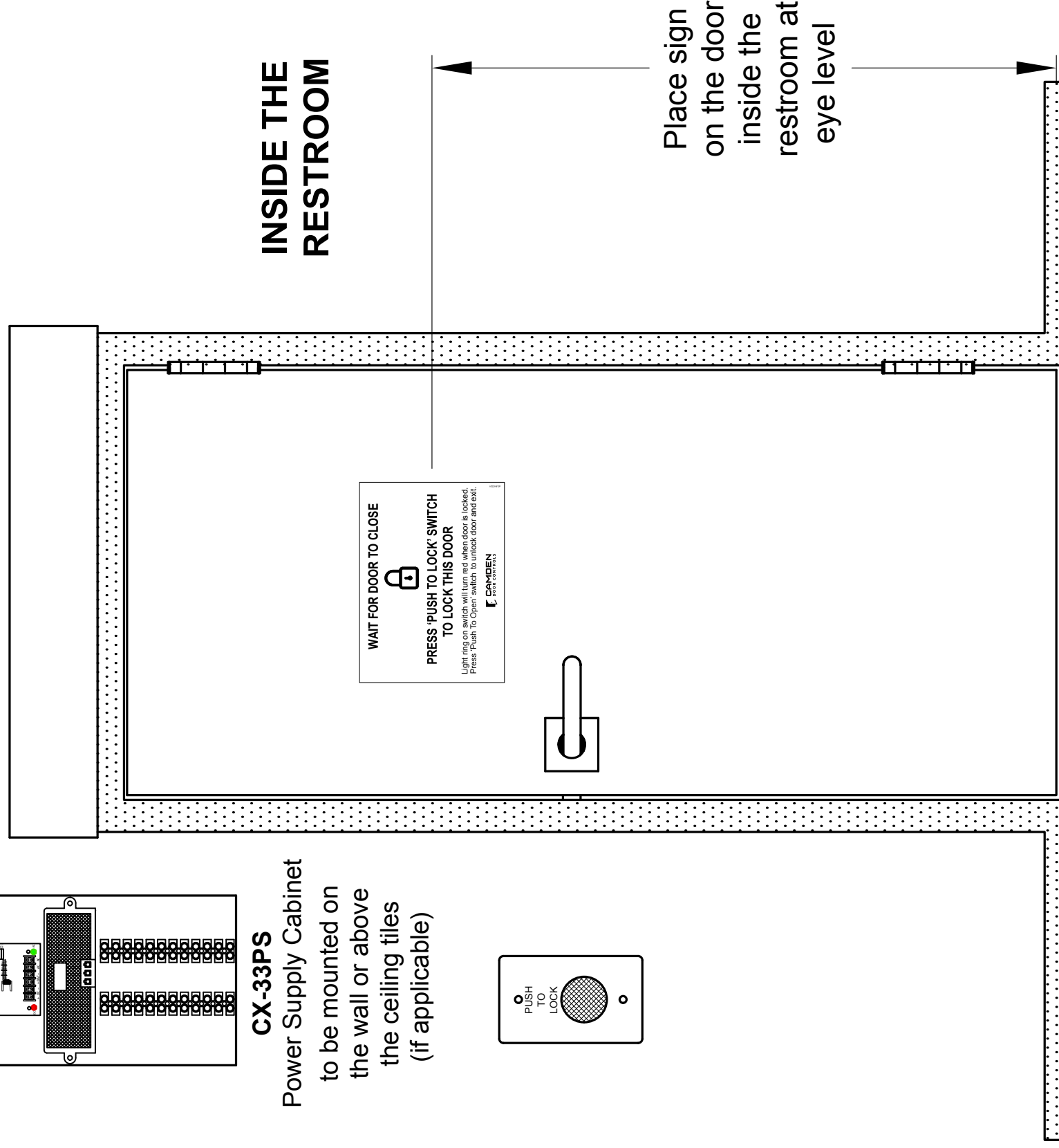
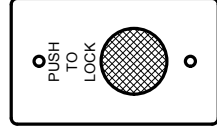
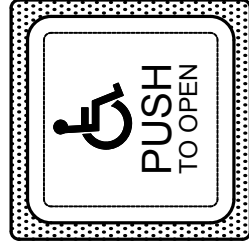
Questions? Call us toll-free at 1-877-226-3369 or technical support 905-366-3377 (ext. 505)

RESTROOM SIGNAGE

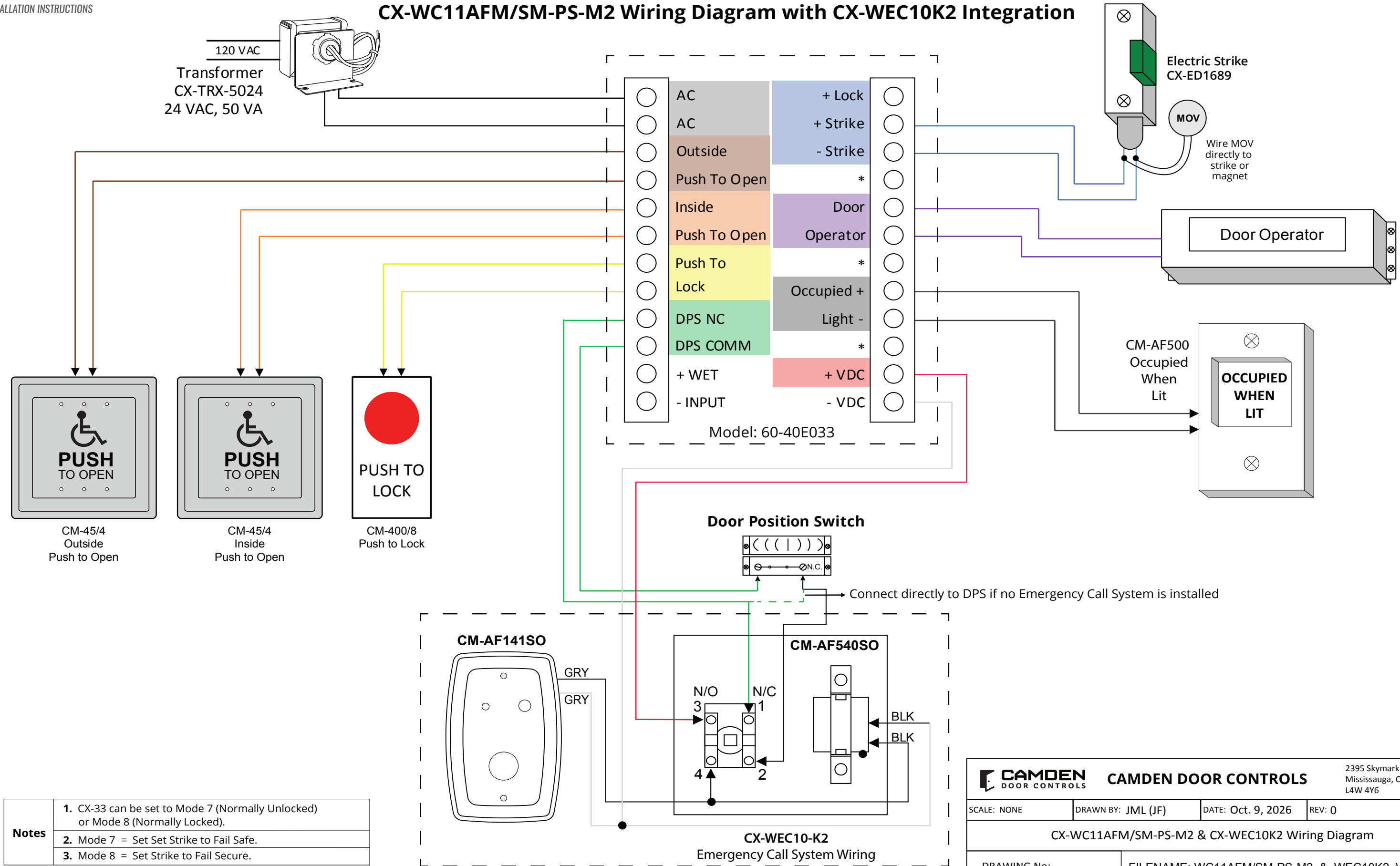


CX-33PS

Power Supply Cabinet
to be mounted on
the wall or above
the ceiling tiles
(if applicable)



CX-WC11AFM/SM-PS-M2 Wiring Diagram with CX-WEC10K2 Integration



Notes	1. CX-33 can be set to Mode 7 (Normally Unlocked) or Mode 8 (Normally Locked).
	2. Mode 7 = Set Set Strike to Fail Safe.
	3. Mode 8 = Set Strike to Fail Secure.

CAMDEN DOOR CONTROLS				2395 Skymark Ave, Mississauga, ON L4W 4Y6
SCALE: NONE	DRAWN BY: JML (JF)	DATE: Oct. 9, 2026	REV: 0	
CX-WC11AFM/SM-PS-M2 & CX-WEC10K2 Wiring Diagram				
DRAWING No:		FILENAME: WC11AFM/SM-PS-M2_&_WEC10K2_WD.ai		

CABINET BASE & MOUNTING TEMPLATE

