Door Activation Devices

CM-850 Door Release Switch

INSTALLATION INSTRUCTIONS

THIS PACKAGE INCLUDES:

1 x CM-850 Wiring Diagram
2 x #6 3/4" Phillips Flat Head Self Tapping Screws
1 x Door Release Switch with Bezel
2 x 3/16" wall plugs

1. GENERAL DESCRIPTION

The Camden Surface Mount Rocker Switch is ideal for mounting under a desk or counter. It can be used for unlocking a door for visitors or as a signalling device in a panic situation. Its form 'C' contacts can be easily field configurable for either momentary (default) or maintained operation. The neutral beige finish blends well with most typical office environments. The large actuator provides positive feedback to the successful activation of the switch.

2. SPECIFICATIONS

Configuration	Momentary - SPDT (Common,N.C.,N.O.) Maintained - SPST (Common,N.C.,N.O.)
Switch Rating	10A @ 30V DC
Finish	Beige

3. DIMENSIONS

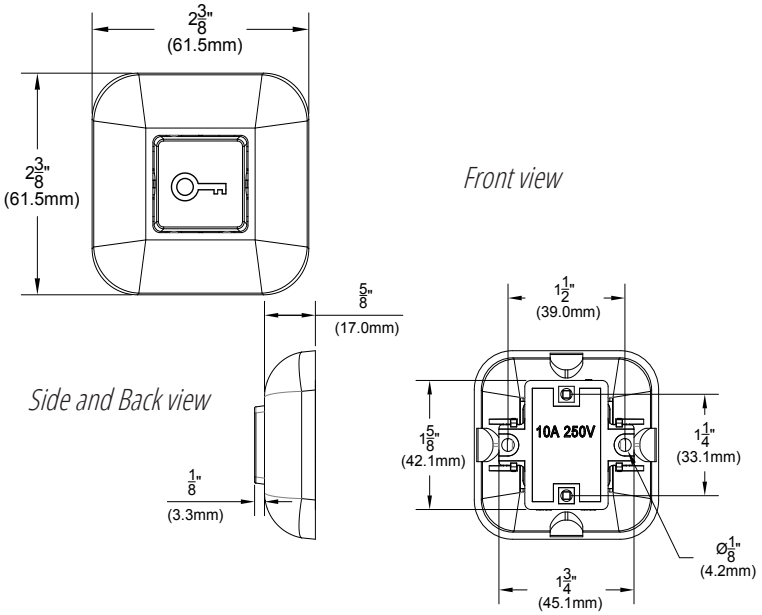

Figure 3.1: Dimensions of Door Release Switch

4. WIRING INSTRUCTIONS

The contact layout of the CM-850 has the common terminal of the switch on one end and the normally open and normally closed terminals are on the other end. When facing the switch and the common terminal is located on the top you will see that the normally closed terminal will be at the bottom towards the left and the normally open terminal will be at the bottom towards the right.

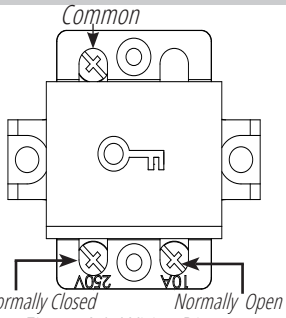

Figure 4.1: Wiring Diagram

5. DIAGRAMS (HOW TO WIRE)

Using the CM-850 to Unlock a Fail-Secure Strike (momentary action)

1. Connect strike's negative wire to power supply's negative terminal.
2. Connect strike's positive wire to switch's normally open terminal.
3. Link switch's common terminal to power supply's positive terminal.

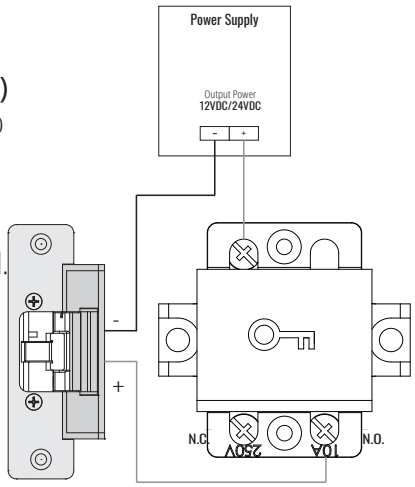

Figure 5.1: CM-850 (Momentary action) used to unlock a Fail-Secure Strike

Using the CM-850 as a Panic Alarm to an Alarm Panel (maintained action)

1. Connect the common terminal of the CM-850 to the Alarm panel input.
2. Connect the normally closed terminal of the CM-850 to the Alarm panel ground.

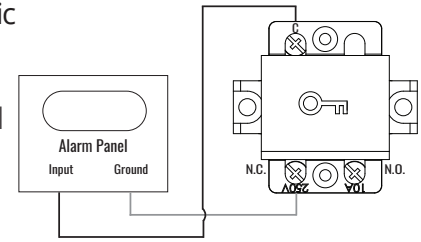

Figure 5.2: CM-850 (Maintained action) Used as a panic alarm to an Alarm Panel

Using the CM-850 to Unlock a Maglock (momentary action)

1. Connect maglock's negative wire to DC power supply's negative terminal.
2. Attach maglock's positive wire to switch's normally closed terminal.
3. Link switch's common terminal to DC power supply's positive terminal.

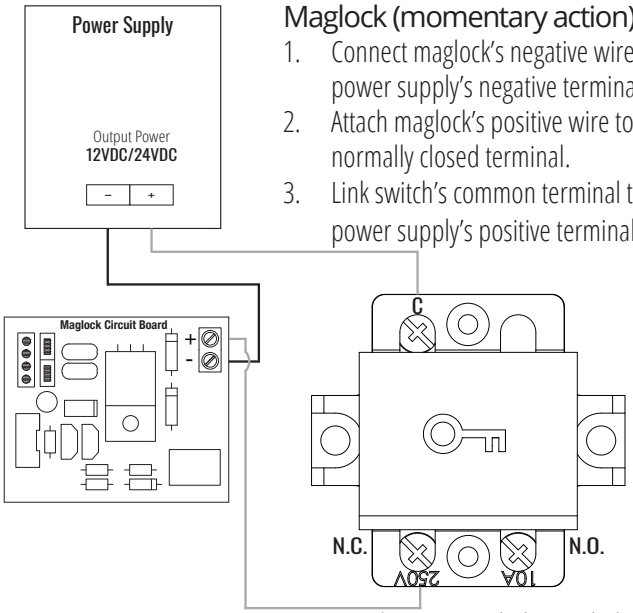

Figure 5.3: CM-850 (Maintained action) to unlock a Maglock

6. INSTALLATION

The CM-850 can be virtually mounted any place where it is at easy arms reach away. The most typical locations would be either under a counter top or desktop, or mounted to the wall. Considerations should be taken to ensure the CM-850 is not accidentally activated. For unlocking a door for visitors or when being used as a signaling device in a panic situation it is best to keep it out of view away from anything that may falsely activate it.

Mounting under a Countertop or Desktop

1. Insert a small flat head screwdriver as shown in the figure 6.1 and gently pry it up until it clears the mounting tab then remove the switch from its housing.
2. Place the contact portion of the CM-850 where it is to be mounted. Then insert the self-tapping mounting screws through the mounting holes and snugly secure to the location. Do not over tighten.
   Note: When mounting close to the edge of the desk or counter top allow additional space for the switch housing so as not to go past the edge.
3. Press the switch housing over the wired contacts until you hear a click to ensure it is fastened securely.

Mounting onto a Wall

1. Insert a small flat head screwdriver as shown in the picture above and gently pry it up until it clears the mounting tab then remove the switch from its housing.
2. Place the contact portion of the CM-850 where it is to be mounted.
3. Place a level on the top to ensure it is mounted straight and true (See Figure 6.3).
4. Insert a pencil through both mounting holes to mark where to insert the provided wall anchors. Drill or punch out the marked spot and insert the wall anchors. Tap the wall anchors into place until they are flush with the wall.
5. Insert the self-tapping mounting screws through the mounting holes and snugly secure to the location. Do not over tighten.
6. Press the switch housing over the wired contacts until you hear a click to ensure it is fastened securely.

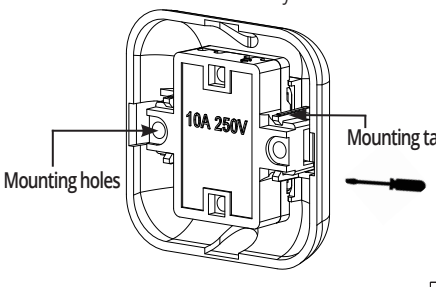

Figure 6.1: Removing the bezel

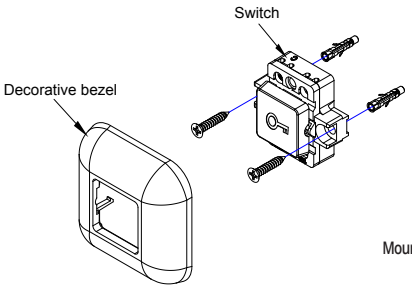

Figure 6.2: Exploded view

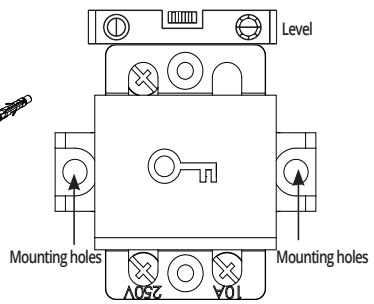

Figure 6.3 Mounting the switch onto a wall

7. OPERATION

Changing the Operational Mode of the CM-850 (momentary to maintained)

1. When looking at the back of the CM-850 and the power ratings are as shown in Figure 6.1 you will see the mounting tabs on the left and the right.
2. Insert a small flat head screwdriver as shown in the Figure 7.1 and gently pry it up until it clears the mounting tab then remove the switch from its housing.
3. Looking at the switch, you will see that one side is up and the other is down. (See Figure 7.2(a))
4. Looking under the side that is up you will see a small spring. (See Figure 7.2(b))
5. Using a small flat head screwdriver push the spring down off its post on the rocker part of the switch. (See Figure 7.2(c))
6. Keep the spring in case you will need to make the switch momentary in the future.(See Figure 7.2(d)).

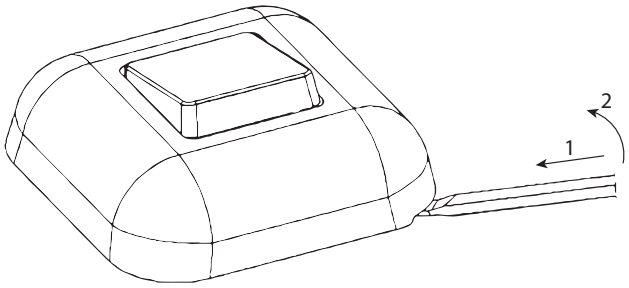

Figure 7.1: Removal of the bezel

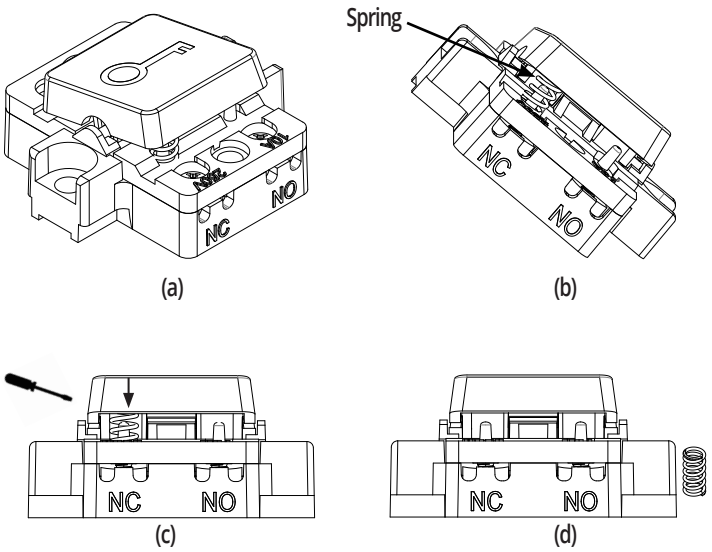

Figure 7.2: Changing from momentary to maintained