

Installation Instructions

Model XLS-MSE3(R)-ADPT

Adapter Kit

INTRODUCTION

Use the Model XLS-MSE3(R)-ADPT Adapter Kit from Siemens Industry, Inc., to upgrade existing MXL-IQ Systems installed in Model MSE-3L(R) or MSE-3M(R) backboxes to FireFinder-XLS/Desigo Fire Safety Modular/Cerberus PRO Modular Systems. The MSE-3L(R) and MSE-3M(R) will be referred to as MSE-3(R) in the remainder of the document.

The XLS-MSE3(R)-ADPT Adapter Kit consists of an adapter plate, inner door and outer door. The XLS-MSE3-ADPT (S54430-C14-A1) inner and outer doors are black; the XLS-MSE3R-ADPT (S54430-C14-A2) inner door is black and outer door is red. The XLS-MSE3-ADPT and the XLS-MSE3R-ADPT are identical in all other ways and will be referred to in the remainder of this document as XLS-MSE3-ADPT.

The adapter plate installs over the existing studs in an MSE-3(R) backbox. The inner door has an opening in it for the installation of a FCM2041-U2/-U3 operator interface and either one ID-MP mounting plate or one ID-SP blank plate. The inner door is permanently hinged right and is attached to the backbox by screws.



The XLS-MSE3(R)-ADPT is for indoor use only in dry environments.



With this conversion, the maximum battery set that can be used in the backbox is 18 AH (model BP-61). If larger batteries are required, use either a BB-55 or CAB-BATT battery box.

To convert an MSE-3(R) backbox from an MXL-IQ System to an XLS/Desigo Fire Safety Modular/Cerberus PRO Modular component system, you must first disassemble the MXL-IQ and then assemble the XLS/Desigo Fire Safety Modular/Cerberus PRO Modular. This two-part procedure is described in detail below.

DISASSEMBLY OF MXL-IQ SYSTEM



Remove all system power, first battery and then AC.

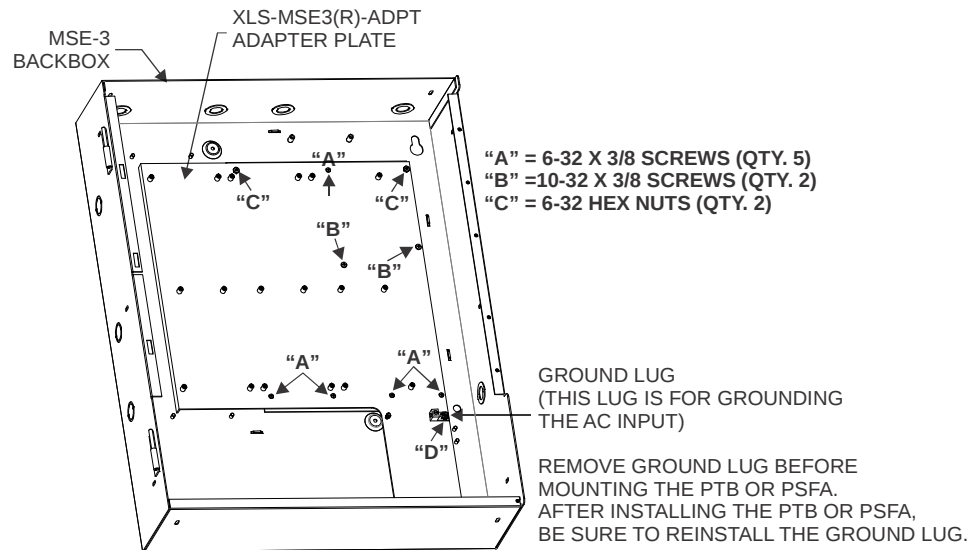
1. Remove and discard the outer door. Reserve the hardware used to secure it in place.
2. Disconnect and remove the modules from the inner door.
3. Remove all modules from the backbox, making sure to mark all wires. Reserve the hardware used to secure them in place.
4. Remove the MPS power supply and batteries from the backbox.

The three parts of the XLS-MSE3-ADPT are installed separately. The adapter plate is installed first, followed by the inner door and then the outer door.

Adapter Plate

The XLS-MSE3-ADPT adapter plate has holes in it that fit over the studs in the MSE-3 backbox in only one way.

1. Place the XLS-MSE3-ADPT over the studs in the backbox and secure it in place with the hardware provided as shown in Figure 1.



*Figure 1
Installing the XLS-MSE3-ADPT Adapter Plate in the MSE-3 Backbox*

2. Install the required CC-5 system cardcage, PSC-12 or PSC-12M power supply, and PTB or PSFA power termination board after careful consideration of NEC Article 760 for separation of power limited and non-powered limited wiring. Refer to Figure 2. Use the hardware provided with those modules to mount them to the adapter plate. Refer to the CC-5 Installation Instructions, P/N 315-033035, the PSC-12 Installation Instructions, or the PSC-12M Installation Instructions, Document ID A6V12021370.
3. One PTB or PSFA can be mounted on the XLS-MSE3-ADPT on the bottom right of the plate using the four studs provided. Refer to the PTB Installation Instructions, P/N 315-034877, or the PSFA Installation Instructions, Document ID A6V12057961. The stud marked "D" in Figure 1 is a lug for grounding the AC input. Remove the ground lug before mounting the PTB or PSFA. After installing the PTB or PSFA, be sure to reinstall the ground lug.
4. A battery set of up to 18 AH capacity can be placed in the bottom of the enclosure.
5. System cards can be installed in the CC-5 cardcage, as required.

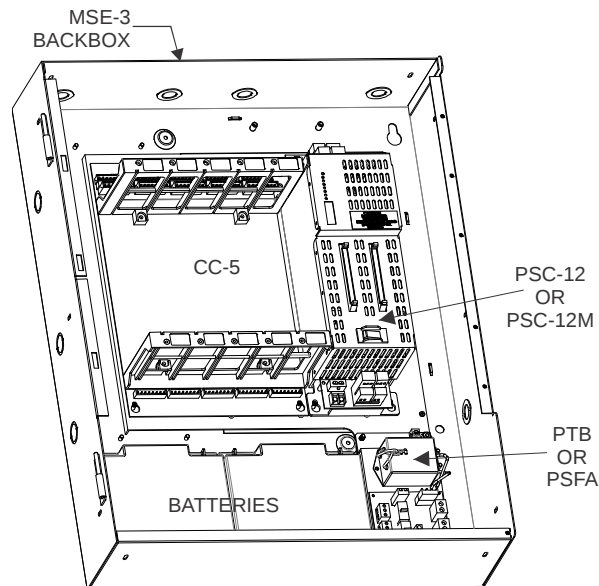


Figure 2
Mounting the XLS/Designo Fire Safety Modular/Cerberus PRO Modular Modules in the MSE-3 Backbox

Install the Inner Door

Install the inner door by following the steps listed below.

1. Place two of the four #6-32x5/16 screws provided in the top and bottom holes on the right-hand side of the backbox.
2. Tighten the screws just a few turns leaving a 1/8-inch gap between the head of the screws and the backbox.
3. Slide the inner door into position under the screws.
4. Make certain the flange at the left-hand top of the inner door is seated in the lip in the backbox. (Refer to Figure 3.) Adjust the door as needed so that it seats securely in the enclosure.

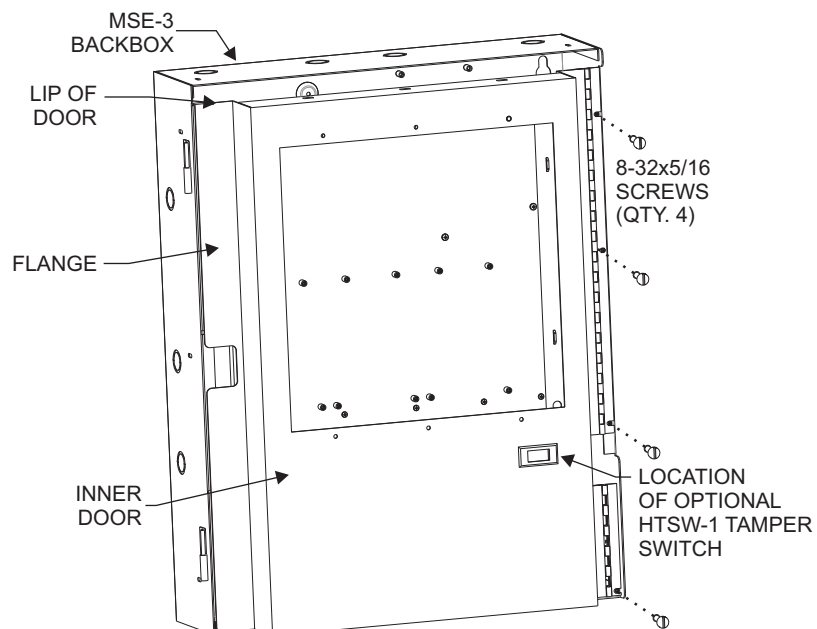
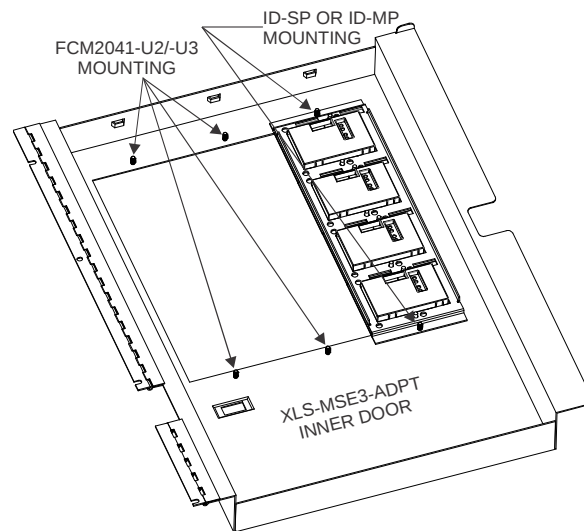


Figure 3
Installing the Inner Door

5. Insert the remaining two screws in the two holes on the right side of the backbox to secure the inner door. Tighten all four of the screws.
6. Install a FCM2041-U2/-U3 on the inner door. Refer to the PMI Installation Instructions, P/N 315-033070, the FCM2041-U2 Installation Instructions, Document ID A6V11231623, or the FCM2041-U3 Installation Instructions, Document ID A6V11231630, for further information.
7. Install door-mounted modules (FCM-6, LCM-8, SCM-8) as needed for system operation.
8. Insert blank plates, as needed, in unused space on door and secure with #10-32 nuts. (Refer to Table 1 and Figure 4.)

TABLE 1 INNER DOOR PLATES		
MODEL	DESCRIPTION	MOUNTING
ID-MP	Mounting plate/bracket for FCM-6, LCM-8, SCM-8 and BCM.	Mounts on studs in door. Secured with two 10-32 nuts.
ID-SP	Blank insert the same size as the ID-MP mounting plate/bracket.	Mounts on studs in door. Secured with two 10-32 nuts.



*Figure 4
Inner Door Modules*

Install the Outer Door

The outer door is shipped with a clear lens installed in the door opening.

1. Insert the hinge pins on the outer door in the hinges on the backbox.
2. Place the XLS system label, P/N 575-234411, Desigo Fire Safety Modular system label, P/N A5Q00075144, or Cerberus PRO Modular system label, P/N A5Q00075194, on the inside of the outer door.
3. A ground wire comes installed on the inside of the outer door. (Refer to Figure 5.) Bring the free end of the ground wire through the opening at the top left-hand side of the inner door and secure it in place on an unused stud in the backbox with a #10-32 hex nut (user supplied).
4. Close the outer door and secure with the key latch.

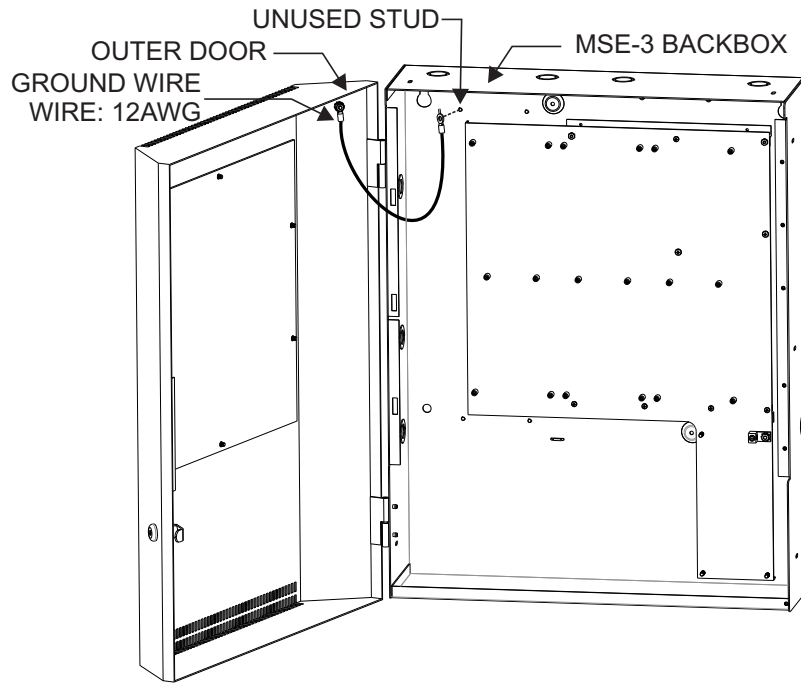


Figure 5
Ground Wire Installation

WIRING

In compliance with NEC Article 760, all power limited fire protective signaling conductors must be separated a minimum of ¼ inch from all of the following wiring located within a control panel:

- electric light
- power
- Class 1 or non-power limited fire protective signaling conductors

To meet these requirements, the following guidelines **must be observed** when installing modules and wiring to this control panel.

When installing power limited field wiring, the installer must comply with NEC article 760, which states:

The fire alarm power-limited circuits are installed using Types FPL, FPLR, FPLP or permitted substitute cable, provided these power-limited cable conductors extending beyond the jacket are separated by a minimum of 0.25 in. (6.35 mm) or by a nonconductive sleeve or nonconductive barrier from all other conductors.



If energy limited cable or equivalent is not used within the enclosure, then the following guidelines do not apply. In that case, be sure to follow standard wiring practices.

Wiring Entering Enclosure

Non-Power Limited Wiring

Wiring entering the enclosure from the bottom and right side of the backbox is considered non-power limited wiring. Wiring must be in the shortest route and must not overlap any other wiring.

Power Limited Wiring

Wiring entering the enclosure from the top and the left side of the backbox is considered power limited. Wiring must be in the shortest route and must not overlap any other wiring.

Use the existing lances in the backbox to dress the wires as needed to maintain separation of power limited and non-power limited wiring.

Use the existing lances on the adapter plate to dress the wires as needed to maintain separation of power limited and non-power limited wiring.

Install Wiring

The primary mains input must have a separate or dedicated circuit breaker. Wire in accordance with local codes and Article 760 of NEC.

1. Remove the knockouts in the backbox for the entry of field wiring.
2. Pull all field wiring into the backbox. Do not dress the wiring until the location of all the equipment is known.
3. Install the wiring from the external power source to the approximate location of the power supply.

CYBER SECURITY DISCLAIMER

Siemens provides a portfolio of products, solutions, systems and services that includes security functions that support the secure operation of plants, systems, machines and networks. In the field of Building Technologies, this includes building automation and control, fire safety, security management as well as physical security systems.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art security concept. Siemens' portfolio only forms one element of such a concept.

You are responsible for preventing unauthorized access to your plants, systems, machines and networks which should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. Additionally, Siemens' guidance on appropriate security measures should be taken into account. For additional information, please contact your Siemens sales representative or visit <https://www.siemens.com/global/en/home/company/topicareas/future-of-manufacturing/industrial-security.html>.

Siemens' portfolio undergoes continuous development to make it more secure. Siemens strongly recommends that updates are applied as soon as they are available and that the latest versions are used. Use of versions that are no longer supported, and failure to apply the latest updates may increase your exposure to cyber threats. Siemens strongly recommends to comply with security advisories on the latest security threats, patches and other related measures, published, among others, under

<https://www.siemens.com/cert/en/cert-security-advisories.htm>.

