

SIEMENS

Installation Instructions

Model SCM-8S / LCM-8S / FCM-6S

Model CSB

Switch Control Module SCM-8S (500-035800 / S24235-B103-A2)

LED Control Module LCM-8S (500-035810 / S24235-B102-A2)

FAN Control Module FCM-6S (500-035820 / S24235-B104-A2)

CAN Sounder Board (500-033130 / S24235-A105-A2)

INTRODUCTION

The **SIEMENS** Models SCM-8S, LCM-8S and FCM-6S, are similar in appearance and identical in installation.

The **SIEMENS** Model SCM-8S Switch Control Module (Figure 1) contains eight switches and eight pairs of LEDs. Each pair contains one bi-color (red/green) and one yellow LED. The functions of the switches and LEDs are programmed using the Zeus Tool. All LEDs can be programmed ON, OFF, or FLASHING. The SCM-8S is used for manual control of the system.

The **SIEMENS** Model LCM-8S LED Control Module (Figure 2) contains eight pairs of LEDs. Each pair contains one bi-color (red/green) and one yellow LED. The functions of the LEDs are programmed using the Zeus Tool. All LEDs can be programmed ON, OFF, or FLASHING. These LEDs are used for system status annunciation.

The **SIEMENS** Model FCM-6S Fan Control Module (Figure 3) contains six sets of three pushbutton switches and their corresponding LEDs. The ON and AUTO switches both have one bi-color (red/green) LED while the OFF switch has one bi-color and one yellow LED. The functions of the switches and LEDs are programmed using the Zeus Tool. All LEDs can be programmed ON, OFF, or FLASHING. The FCM is designed for general control requiring ON/OFF/AUTO operation.

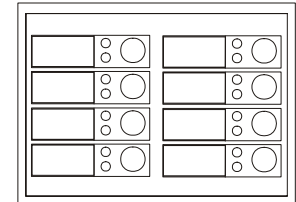


Figure 1
SCM-8S Switch Control Module

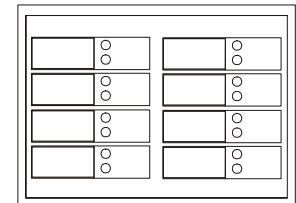


Figure 2
LCM-8S LED Control Module

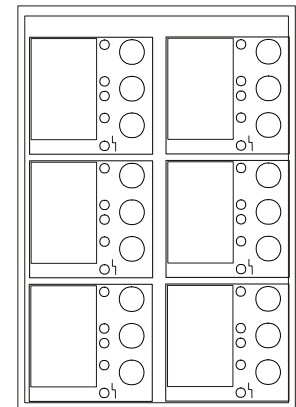


Figure 3
FCM-6S LED Control Module

The **SIEMENS** Model CSB CAN Sounder Board (P/N 500-033130 / S24235-A105-A2) is an optional module that can be ordered separately. It contains a sounder (buzzer) that can be used with the SCM-8S or FCM-6S to provide audible feedback to indicate that a switch closed properly and communication was successful. The CSB requires no programming.

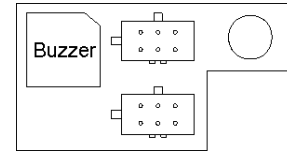


Figure 4
CSB CAN Sounder Board

All modules mount on the inner door of an enclosure.

OPERATION

- SCM Controls and Indicators** The SCM-8S contains eight switches and eight pairs of LEDs. Each switch is associated with a pair of LEDs. Pressing of any of the eight switches generates a unique CAN message on the bus that indicates which switch was pressed. A CAN message to the SCM-8S produces a preprogrammed output to the corresponding LED (ON, FLASHING or OFF). An open collector is provided for connection to the CAN Sounder Board (CSB), a separate audio module. The CSB provides an audible feedback to indicate that the switch closed properly.
- LCM Controls and Indicators** The LCM-8S contains eight pairs of LEDs. A CAN message from to the LCM-8S produces a preprogrammed output to any of the corresponding LEDs (ON, FLASHING, or OFF).
- FCM Controls and Indicators** The FCM-6S contains six sets of three pushbutton switches and their corresponding LEDs. Pressing any of the six ON, OFF or AUTO switches generates a unique CAN message on the bus that indicates which switch was pressed. A CAN message to the FCM-6S produces a preprogrammed output to the corresponding LED (ON, FLASHING or OFF). An open collector is provided for connection to the CAN Sounder Board (CSB), a separate audio module. The CSB provides an audible feedback to indicate that the switch closed properly.
- CSB Controls and Indicators** The CSB contains a sounder (buzzer) that sounds when any switch on an FCM-6S or SCM-8S is pressed. Only one CSB is required for audible feedback; more can be connected to increase the volume if needed.

PRE-INSTALLATION

Set the board address for each SCM-8S / LCM-8S / FCM-6S using both of the ten-position rotary switches located on the back of the board (See Figure 5). Each of these addresses must be a sub-address of the DAC-NET and must be the same as the addresses assigned in the Zeus Programming Tool. The CSB does not require address setting.

After setting the address, label each switch or LED. When viewed from the front panel of the SCM-8S / LCM-8S / FCM-6S, the labels are on the left and the control switches and LEDs are on the right.

- Refer to the Zeus configuration for the address of each module and its assigned functions.
- Remove the label strip from its slot and type or print a brief function identifier for each switch.
- After completing the label strip, insert in back into its slot (See Figure 6).

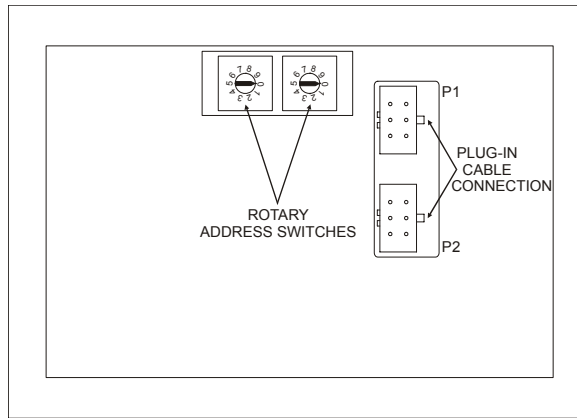


Figure 5 SCM-8S / LCM-8S / FCM-6S Address Switches And Cable Connections

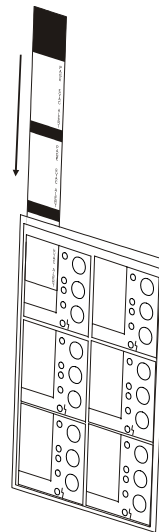


Figure 6 Inserting A Label into The Back Of The FCM-6S

INSTALLATION

CAN Sounder Board

The CSB is normally positioned at the last SCM-8S, LCM-8S or FCM-6S. If desired, multiple CSBs can be installed. The CSB mounts on the stud of the SCM-8S / LCM-8S / FCM-6S module that it connects to.

1. Determine the position of the CSB. (This is normally at the last SCM-8S, LCM-8S or FCM-6S module.)
2. If necessary, remove nut from stud of SCM-8S / LCM-8S / FCM-6S where CSB is to be mounted.
2. Place mounting hole on the CSB over stud.
3. Secure with nut supplied with SCM-8S / LCM-8S / FCM-6S.



Remove ELECTRICAL POWER prior to working on equipment.

- Each SCM-8S / LCM-8S / FCM-6S module is a node in the CAN bus.
- Each SCM-8S / LCM-8S / FCM-6S connects through the CC-5/CC-2 CAN bus via a plug-in cable to the DAC-NET or to another SCM-8S / LCM-8S / FCM-6S module.
- Up to 99 SCM-8S / LCM-8S / FCM-6S modules, in any combination, can be connected to the CAN bus of each DAC-NET.
- Each SCM-8S / LCM-8S / FCM-6S module is shipped with one CCS cable.

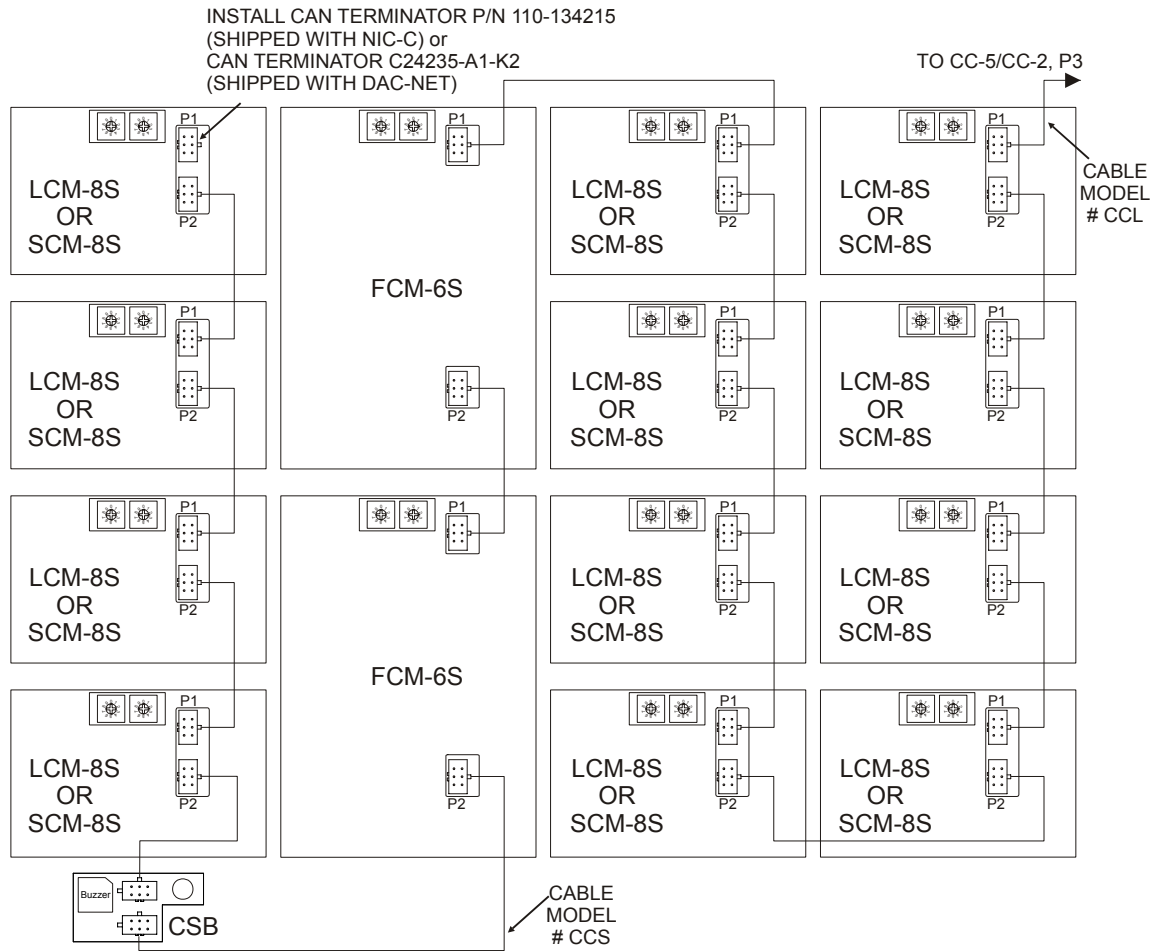


Figure 7 Typical Wiring For SCM-8S / LCM-8S / FCM-6S And CSB

- Cable connections for SCM-8S / LCM-8S / FCM-6S / CSB modules are shown in the following table and in Figure 7:

SCM-8S / LCM-8S / FCM-6S / CSB CABLE CONNECTIONS

Cable	Description	Part Number	Connection
CCL	CAN-CABLE-Long 30 in. (100cm), 6-conductor	599-634214 C24235-A1-K6	Connects from row to row (on door) for SCM-8S / LCM-8S / FCM-6S / CSB / modules. Also connects from P3 on CC-5/CC-2 to first SCM-8S / LCM-8S / FCM-6S
CCS	CAN-CABLE-Short 5½ in. (14cm) , 6-conductor	555-133539 C24235-A1-K4	Connects SCM-8S / LCM-8S / FCM-6S / CSB modules to SCM-8S / LCM-8S / FCM-6S / CSB modules in a single row

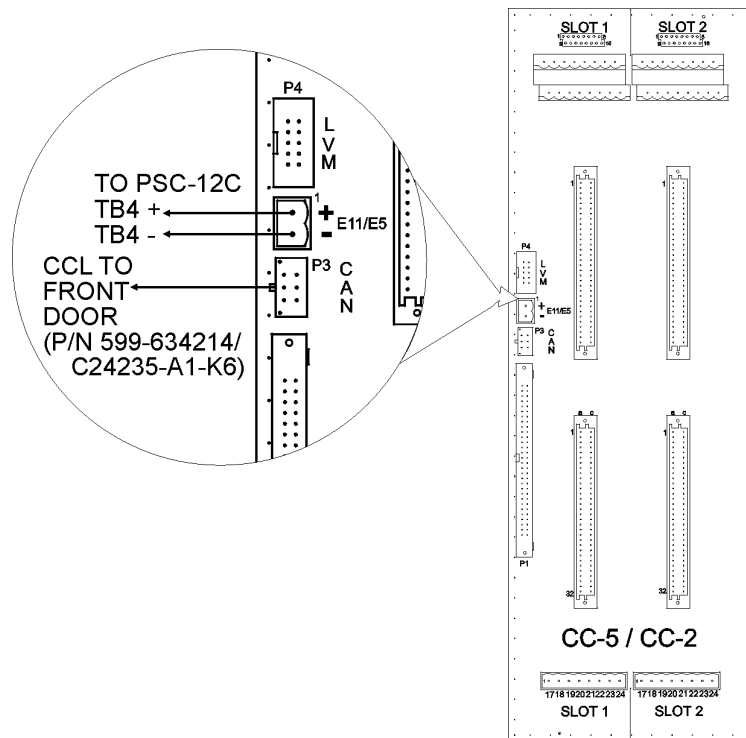


Figure 8 Connecting Power For SCM-8S / LCM-8S / FCM-6S Modules

ELECTRICAL RATINGS

24V Back Plane Current	0
24V Screw Terminal Current	14mA max + 1mA per active LED
6.2V Back Plane Current	0
24V Standby Current	14mA max + 1mA per active LED

For CE applications in Cerberus E100 systems refer to
Installation Instruction A24205-A334-B844 (English) or A24205-A334-A844 (German)

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