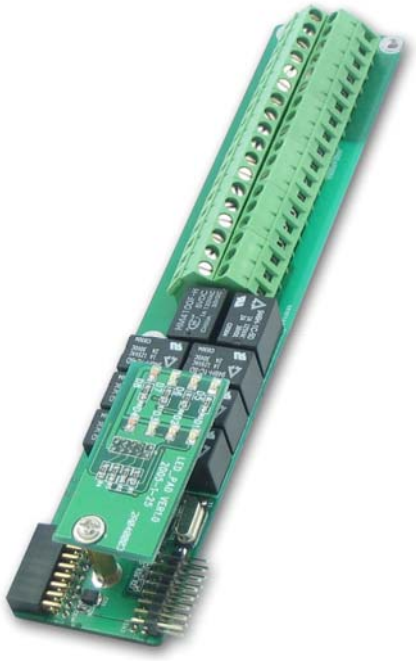
Volume

1

EverAccess

User Manual



Alarm Module for Flex Series Controller

EFM-AL-1A

EVERFOCUS ELECTRONICS CORPORATION

EFM-AL-1A

Instruction Guide

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Chapter

1

Product Overview

The EverAccess® Flex Series controller (part number: EFC-02-1A) incorporates state-of-the-art technology and modular design to provide reliable performance, user-friendly installation, expansion capabilities, and flexible but powerful configuration options. The alarm module (part number EFM-AL-1A) is the alarm expansion unit for the Flex Series Controller.

The alarm module provides 8 alarm inputs and 8 alarm outputs. With the expansion alarm module and 4 door modules installed, the EverAccess Flex Series controller can support up to 10 alarm inputs and 18 alarm outputs. The alarm module is installed in a right to left cascading fashion. The features for the alarm module are listed in the next section.

Features

- Supports 8 alarm inputs
- Supports 8 alarm outputs
- Built-in transient voltage suppressor (TVS) to protect controller from electric surge
- Large durable relay, max current draw up to 2A at 30VDC
- Built-in LEDs display the system status intuitively

Parts List

Please be careful when you unpack the box due to the electronics devices inside. Check and make sure that you have all the items below inside the original box:

- 3 mm* 4mm screws (to mount the module to the controller)

If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, notify your Everfocus Electronics Corp. Sales Representative or Customer Service. The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

In addition, the following EverAccess products are required for use with the door module to achieve the correct functionality:

- EverAccess Flex Series Controller (part number EFC-02-1A)

Specifications

Items	*Parameter*
Input	8 alarm inputs
Relay output	8 alarm outputs
LED	2x4
Power supply	Provided by the controller
Max current draw for relay outputs	2A

Chapter

2

Installing an Alarm Module into the Controller

The EverAccess Flex series controller can accommodate up to 4 door modules and 1 alarm module. The alarm module connects to the door modules in a cascading fashion. It can be installed in any of the 5 available positions; the order of installation of the door modules and alarm module does not affect the functionality.

The steps to install an alarm module are described below:

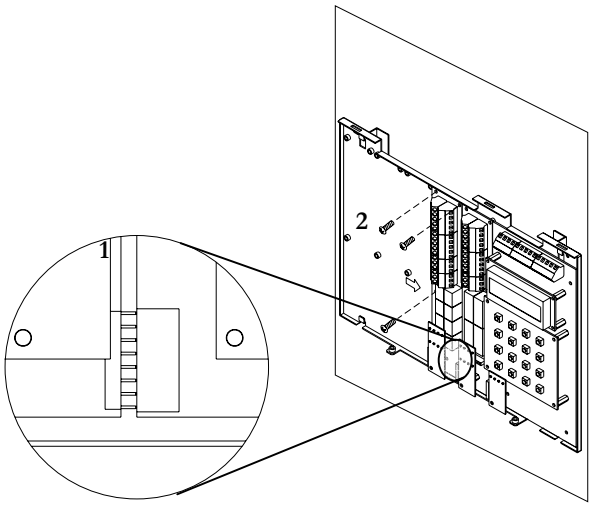

Figure 2.1 Install an alarm module into Controller

1. Connect the pins on the lower right corner of the new module to the connector on the bottom left corner of the installed module. Make sure that the pins fit snugly into the receiving module.
2. Secure the module to the controller base board using the three screws (provided in the module package).

Chapter

3

Terminal/LED Definitions

The definitions of the module terminals are presented in this chapter.

Alarm Module Terminal Definition

There are 36 terminals on the alarm module. The positions and indexes are described in Fig 3.1. The definitions are described in Table 3.1.

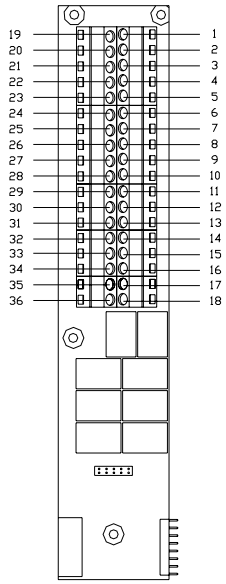

Fig. 3.1 Alarm Module Terminal Definition

The definitions of the alarm module terminals are defined in the following table:

Table 3.1 The definition of LEDs on the alarm module

No	Terminal name	Function	No	Terminal name	Function
1	Alarm1_In	Alarm signal input 1	19	Alarm5_In	Alarm signal input 5
2	GND	GND	20	GND	GND
3	Alarm2_In	Alarm signal input 2	21	Alarm6_In	Alarm signal input 6

4	Alarm3_In	Alarm signal input 3	22	Alarm7_In	Alarm signal input 7
5	GND	GND	23	GND	GND
6	Alarm4_In	Alarm signal input 4	24	Alarm8_In	Alarm signal input 8
7	Alarm1_NO	Alarm 1 output for normally-open	25	Alarm5_NO	Alarm 5 output for normally-open
8	Alarm1_COM	Alarm 1 output in common	26	Alarm5_COM	Alarm 5 output in common
9	Alarm1_NC	Alarm 1 output for normally-close	27	Alarm5_NC	Alarm 5 output for normally-close
10	Alarm2_ NO	Alarm 2 output for normally-open	28	Alarm6_ NO	Alarm 6 output for normally-open
11	Alarm2_ COM	Alarm 2 output in common	29	Alarm6_ COM	Alarm 6 output in common
12	Alarm2_ NC	Alarm 2 output for normally-close	30	Alarm6_ NC	Alarm 6 output for normally-close
13	Alarm3_ NO	Alarm 3 output for normally-open	31	Alarm7_ NO	Alarm 7 output for normally-open
14	Alarm3_ COM	Alarm 3 output in common	32	Alarm7_ COM	Alarm 7 output in common
15	Alarm3_ NC	Alarm 3 output for normally-close	33	Alarm7_ NC	Alarm 7 output for normally-close
16	Alarm4_ NO	Alarm 4 output for normally-open	34	Alarm8_ NO	Alarm 8 output for normally-open
17	Alarm4_ COM	Alarm 4 output in common	35	Alarm8_ COM	Alarm 8 output in common
18	Alarm4_ NC	Alarm 4 output for normally-close	36	Alarm8_ NC	Alarm 8 output for normally-close

Alarm Module LED Definition

There are 8 LED indicators on each door module. The positions and indexes are shown in Fig. 3.2. The definitions of the LED indicators are presented in Table 3.2.

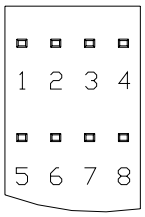

Fig. 3.2 Alarm Module LED Definition

The definitions of LEDs on the alarm module are defined in the following table:

Table 3.2 The definition of the LED indication on the alarm module

LED	Meaning	LED	Meaning
1	Alarm 1	5	Alarm 5
2	Alarm 2	6	Alarm 6
3	Alarm 3	7	Alarm 7
4	Alarm 4	8	Alarm 8

The alarm LED has four different indications:

Light off: No alarm alert for the alarmed zone.

Light flashes slowly: The alarmed zone is in the alert delay stage.

Solid light on: The alarm alert is on for the alarmed zone

Light flashes quickly: The alarmed zone is in danger; alarm signal is input

Chapter

4

Wiring

This chapter will describe, in detail, how to wire the terminals in the door modules.

Connection to Alarm Input

The alarm signals other than the fire alarm and alarm input 0 are controlled by the alarm module, which contains 8 alarm inputs and 8 alarm outputs. Using the 5th channel alarm signal input as an example, the method to connect the alarm module to the alarm sensor is shown in Fig. 4.1:

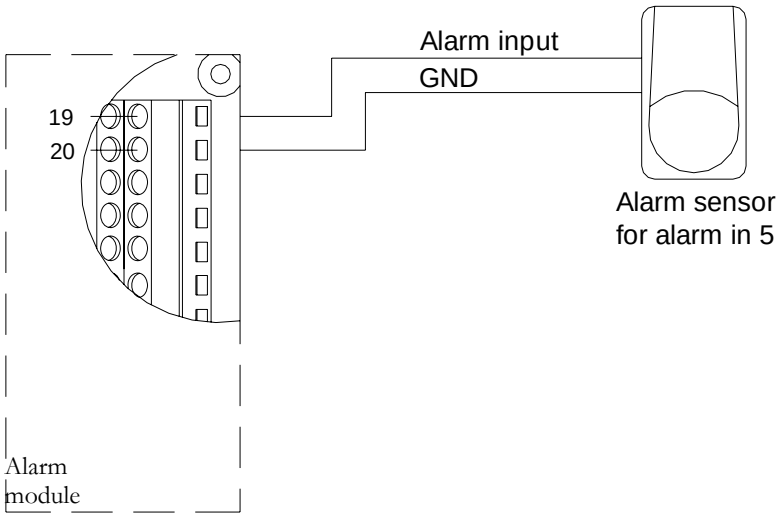

Fig.4.1 Connecting alarm-sensor to controller

Connection to Alarm Output

The alarm module provides 8 alarm inputs and 8 alarm outputs. The user can assign the corresponding relay status to the different events. There are three terminals: COM, N.O and N.C. The wiring depends on the alarm device. Please read the user manual of the external alarm devices before wiring. Using the 5th channel alarm signal output as an example, the wiring is shown in Fig. 4. 2 and 4. 3.

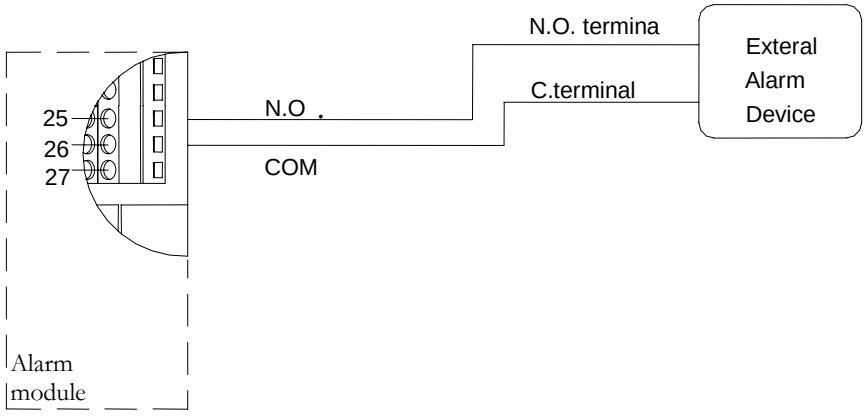

Fig. 4. 2 Normally open connection for alarm output 5

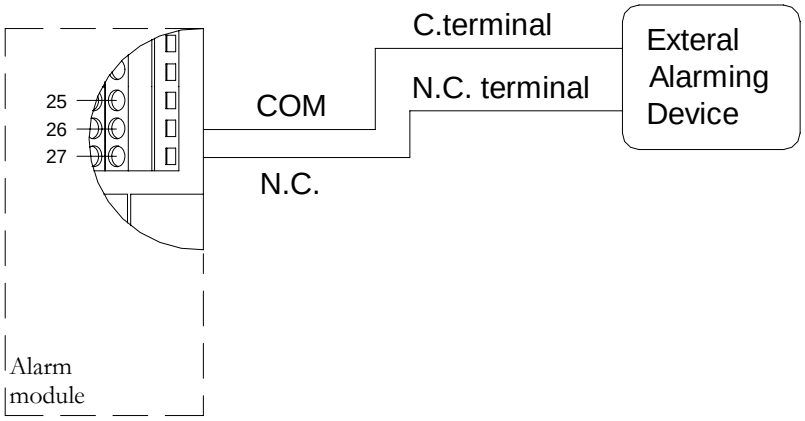

Fig. 4. 3 Normally closed connection for alarm output 5

Notes

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