



Installation Manual

Single-Zone Annunciators

Models SZA310, SZA320



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Introduction

Flair Single-Zone Annunciators can be used as “Stand Alone” Annunciator-Controls or in combination with any Control Panel.

This Manual describes the basic installation and operation of the Flair Single-Zone Annunciator.

It is important that you refer to the Options pages to understand the specific operation of your Single-Zone Annunciator.



Features

- State of the Art Microcontroller Based
- Highly Visible Display
- Pre-Configured for Basic Operation
- 1 – EOL Supervised Input compatible with NC or NO sensors
- 2 – SPDT Relays
- 1 Audible Sounder
- Individual Zone Status LEDs

General Specifications

- Mounting Options
 - o Recessed Wall Mount
 - o Surface Wall Mount, Residential Style Box, Option B
 - o Surface Wall Mount, Commercial Style Steel Box, Option C
 - o Surface Wall Mount, Industrial Style Box, Water Resistant, Option I
- Power Requirements
 - o 12-24VAC/DC
- 1 – Zone Input
 - o End-of-Line (EOL) Resistor Supervised
 - o NC or NO
- 2 – Control Input: Acknowledge/Reset/Arm-Disarm
 - o Momentary Push Button
 - o Momentary Key-Switch
- 2 – Common Relay Outputs
 - o Relay #1: Non-Latching
 - o Relay #2: Configurable as
 - Non-Latching
 - Timed
 - Latching

Overview

1. General

The SZA300 Series Single-Zone Annunciator are ready to use from the factory. They come Pre-Configured with basic Factory (Default) settings.

2. Typical Operation

Based upon standard factory programming and options

Input Loop – The Input is configured to monitor NC/NO EOL (End of Line) Resistor Loop. The Secure State is with a Loop resistance of 1k Ohms. If the resistance is <500 ohms or >2k ohms the Annunciator will detect an Alarm Condition and trigger Red Alarm LED and Sounder

Green LED – The Green LED will display the condition of the Input.

1. LED ON – Indicates a Secure Input Loop.
2. LED OFF – Indicates an Alarm Condition.

Red LED – The Red LED will display the Alarm Condition of the SZA.

1. LED OFF – Indicates NO Alarm Condition.
2. LED Flashing – Indicates an Alarm
3. LED Steady – Indicates an Acknowledged Alarm

Yellow LED – Displays the Arm/Disarm (Shunt) status of Input.

1. LED OFF – Indicates the Input is Armed.
2. LED ON – Indicates the Input is Disarmed (Shunted).

Audible Sounder – The Audible Sounder will indicate an Alarm Condition.

1. Activate Steady ON with any Alarm
2. Silence when the Push Button is pressed
3. Reactivate on any new Alarm

Push Button or Key-Switch – The Momentary Push Button or Key-Switch provides for zone control of Acknowledge, Reset and Shunt (Arm/Disarm).

1. Push once to silence Sounder
2. Push once to reset an Alarmed and Secure Zone
3. Push and hold for 1 ½ seconds to change the Shunt (Arm/Disarm) state of the zone

Relay Output – There are two SPDT, 2 Amp, Relays

1. Relay Output #1 is configured as Non-Latching.
2. Relay Output #2 can be configured as Latching, Timed (1, 3, 10 or 30 minutes), or Momentary, using the Potentiometer.

3. Installation – (Reference Photo, page 6)

1. Connect the Wire Leads to the Annunciator Panel
 - a. J2– EOL Zone Input
 - b. J3 – Control Inputs
 - c. J5 – Relay Outputs
 - d. J4 – 12-24VAC/VDC Power Input
 - e. Test and verify all connections.

2. Applying Power (AC or DC)

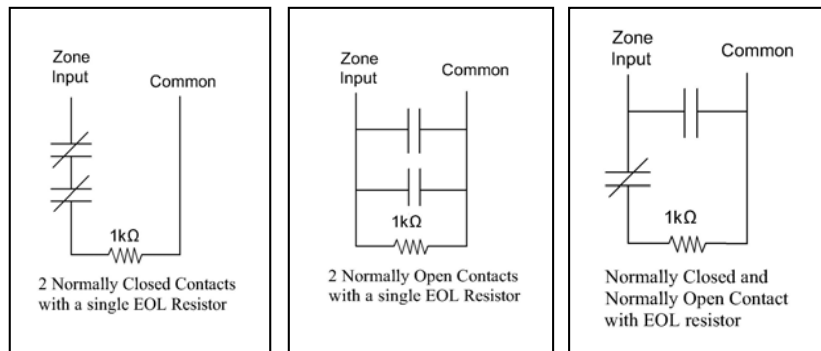
WARNING: Check all field wiring for opens, shorts and grounds. Do not connect the transformer or power supply until all other wiring is complete.

3.1. Zone Input Wiring – J2 Connector

The Zone Input is wired according to the diagrams below.

3.1.1. N.C./N.O.– 1000 Ohm EOL

For use with N.C., N.O. or N.C./N.O. contacts. Inputs must have a 1000 Ohm resistor across them. If an Input is shorted or open, it will Alarm. Resistors should always be placed at the end of the wire run.



3.2. Relay Outputs – J5

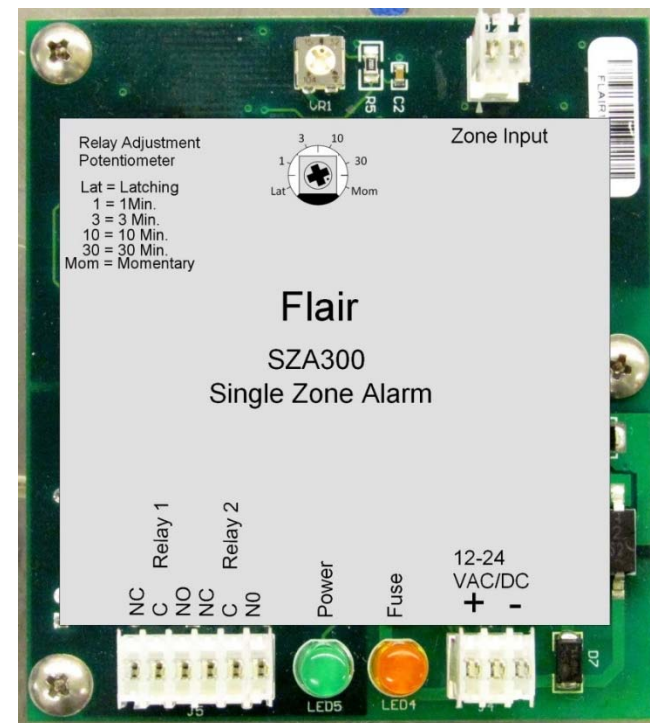
Relay Output #1 is configured as non-latching. Turn the Potentiometer dial with small screw driver to select Relay Output #2 configuration, See photo below.

1. Non-Latching
2. Timed – 1, 3, 10 and 30 minutes
3. Latching

3.3. Power Input – J5 Connector

If the Annunciator was not provided with a Power Source, you will need to provide one. Annunciator may be powered by a 12-24VDC power supply or directly from a 16-24VAC plug in the wall transformer.

3.4. Terminal and LED Description



1. Green Power LED indicates Annunciator is powered
2. Red Fuse LED indicates the Fuse is blown

3.5. D - Warranty

Limited Warranty

Flair Electronics warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Flair Electronics shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labor and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Flair Electronics in writing that there is a defect in materials or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any product purchased from Flair Electronics.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Flair Electronics must first obtain an authorization number. Flair Electronics will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- Damage incurred in shipping or handling;
- Damage caused by disaster such as fire, flood, wind earthquake or lightning;
- Damage due to causes beyond the control of Flair Electronics such as excessive voltage, mechanical shock or water damage;
- Damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- Damage caused by peripherals (unless such peripherals were supplied by Flair Electronics);
- Defects caused by failure to provide a suitable installation environment for the products;
- Damage caused by use of the products for purposes other than those for which it was designed;
- Damage from improper maintenance;
- Damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair center; (ii) products which are not identified with Flair Electronics product label and serial number; (iii) products disassembled or repaired in such a manner as to adversely affect the performance or prevent adequate inspection or

testing to verify any warranty claim. Products not covered by this warranty, or otherwise out of warranty due to age, misuse, or damage shall be evaluated, and a repair estimate shall be provided. No repair work will be performed until a valid purchase order is received from the Customer and a Return Merchandise Authorization Number (RMA) is issued by Flair Electronics customer Service.

Flair Electronics' liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Flair Electronics be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, downtime, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against Flair Electronics, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of Flair Electronics. Flair Electronics neither assumes responsibility for nor authorizes any other person purporting to act on its behalf to modify or change this warranty, nor to assume for it any other warranty or liability concerning this product.

Warning: Flair Electronics recommends that the entire SZA be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tempering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

Flair Electronics will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Flair Electronics must first obtain an authorization number. Flair Electronics will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Flair Electronics determines to be repairable will be repaired and returned. A set fee which Flair Electronics has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Flair Electronics determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

3.6. E - FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by Flair Electronics could void your authority to use this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio-frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/television technician for help

The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.



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