

RA400Z Remote Annunciator

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Introduction

This document contains important information about installing and operating RA400Z remote annunciators. These remote annunciators are manufactured by System Sensor for use with Johnson Controls systems. If you install this remote annunciator for someone else to use, you must leave a copy of this document with the user.

These instructions apply to the RA400Z remote annunciators for installation. Follow only those instructions that apply to the model you are installing.

Before you install any RA400Z remote annunciators, read and be familiar with:

- applicable NFPA standards, local codes, and the requirements of the authority having jurisdiction.
- or, for non-United States installations, applicable codes and standards specific to the country and locality of installation.

Failure to follow these directions may result in failure of the device to report an alarm or trouble condition. Johnson Controls is not responsible for devices that have been improperly installed, tested, or maintained by others.

General Description

The model RA400Z single Light Emitting Diode (LED) remote annunciators are polarized devices designed for both conventional and intelligent fire alarm system applications. They have been designed using an active current regulator so that the maximum current required from the system is 7 mA when the input voltage is within the specified voltage range. They are designed to mount on a standard single gang electrical backbox.



CAUTION: Equipment hazard. Do not use in potentially explosive atmospheres. Do not leave unused wires exposed.

Table 1: Specifications Summary

Voltage Range	
Conventional System	3.1 to 32 VDC
	Do not break tab.
Intelligent System	18 to 32 VDC
	Break tab.
Current Drain	7 mA maximum
Temperature Range	-10 to 60°C (14 to 140°F); 93% maximum RH

Note: Do not break the tab when using an RA400Z with an intelligent 4-wire duct detector (such as the System Sensor model DH500J Air Duct Smoke Detector).

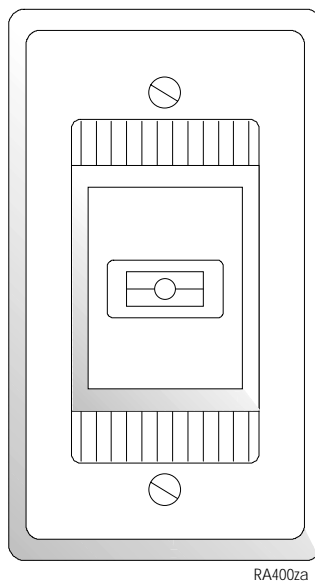


Figure 1: RA400Z Remote Annunciator

Installation Procedures

General Information

This section contains installation information for the RA400Z remote annunciator. Instructions are given for installing the remote annunciators, and basic wiring information is provided.

Wiring Installation Guidelines

1. Wire the remote annunciator according to the instructions supplied with the device being monitored.
2. Polarity of the incoming wires must be observed and connected to the proper terminals “+” and “-” (Figure 2).

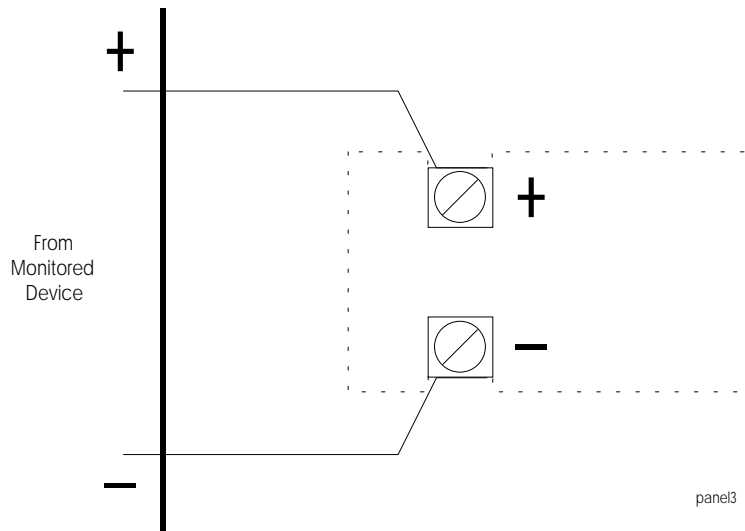


Figure 2: RA400Z Proper Terminals

3. The tab on the back of the RA400Z must be broken off for use with most Johnson Controls intelligent smoke and thermal detectors (Figure 3).
4. After the tab is broken, the input voltage for the RA400Z is limited to 18 volts minimum.

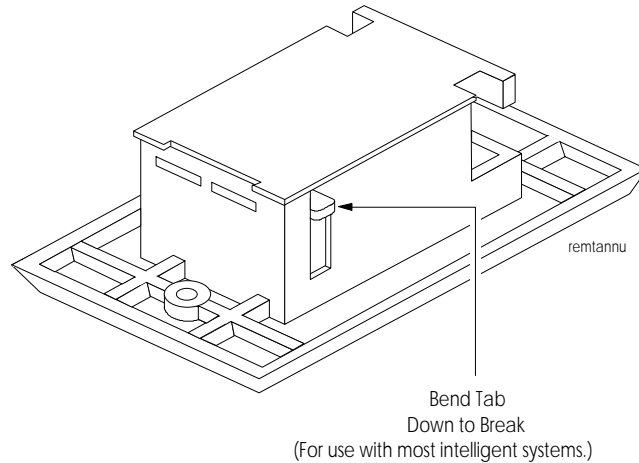


Figure 3: Break Off Tab

Installation

1. The remote annunciator is intended to be mounted to a single gang electrical outlet box.
2. The wiring must be in compliance with all applicable codes.
3. The device must be operated within its published specifications.

Limitations

This annunciator is designed for installation in accordance with the National Fire Protection Association (NFPA) Standard 72-*National Fire Alarm Code*.

- The remote annunciator will not work if the device it is connected to is not powered. The remote annunciator gets its power from the device to which it is connected. If for any reason, the device being monitored loses power, the remote annunciator will not provide the intended visible signal.
- The remote annunciator may not be seen. The model RA400Z is suitable for direct viewing and is in compliance with existing Underwriters Laboratories standards. The device must be installed in a location where it can be seen by the intended parties. The device must not be installed in direct sunlight, or in areas of high light intensity where the visible signal might be disregarded or not seen.
- This device is designed to work specifically with UL compatible products. Interconnection with devices other than UL compatible products may result in unsatisfactory operation.
- The remote annunciator is not intended to be a visible warning signal.

Notes

Notes



Controls Group
507 E. Michigan Street
P.O. Box 423
Milwaukee, WI 53201

FAN 408
Fire Initiating Devices and Notification Appliances Technical Manual
Printed in U.S.A.