Instruction Manual of A9052T Zone Module

------ Please read this Manual carefully before installing and using the product. -----

1. Overview

The A9052T Zone module (A9052T module for short) can be used with an addressable fire alarm control panel. It can be connected with conventional photoelectric smoke detector, conventional heat fire detector or other conventional devices. When the conventional devices give an alarm, the A9052T module will send an alarm signal to the fire alarm control panel through a signal loop.

2. Features and technical parameters

1) Loop type: Nonpolar two-wire system
2) Quiescent current: loop current < 0.5mA ; power current < 15mA
3) Action current: loop current < 2mA ; power current < 35mA
4) Loop operating voltage: Loop 20~28V for terminal L1 & L2(non-polar wiring)
5) Power operating voltage: DC 20~28V for terminal +24V & GND
6) Operation indicator: The inspection indicator will blink once about every 12 seconds in the inspection status or remain lit in the operation status.
7) Operating environment: Temperature: $-10\,°C \sim 50\,°C$; Relative humidity: ≤95% ($40\,°C±2\,°C$, without condensation)
8) End-Of-Line resistor: 4.7kΩ resistor
9) External dimensions: $86 × 86 × 40$(mm)
10) Weight: about 119g
11) Executive standard: EN 54-18

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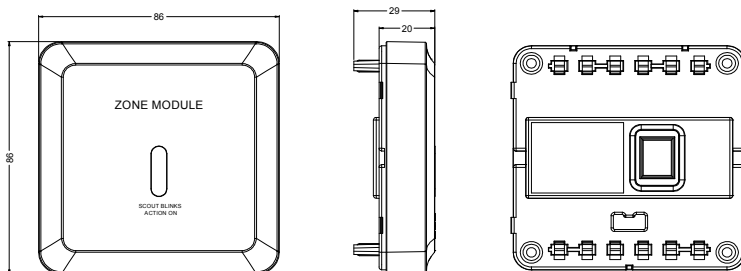2831-CPR-F4663
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3. Instructions for use

Fig.1 Main part of the A9052T Module (unit: mm)

1) Terminal description for the A9052T module (see Fig.2)
Terminal description:

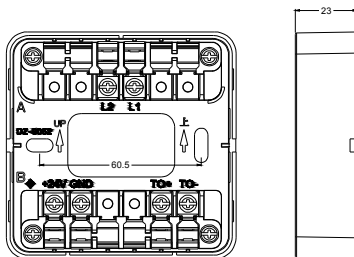| Terminal	Description	Terminal No.	Description
L1	Loop connection to the fire alarm control panel , non-polarized	L2	Loop connection to the fire alarm control panel , non-polarized
+24V	DC24V access terminal (positive)	GND	DC24V access terminal (negative)
TO+	Load access terminal (positive) for the conventional devices	TO-	Load access terminal (negative) for the conventional devices

Fig.2 Base of the A9052T Module (unit: mm)

2) Wiring method of the A9052T module
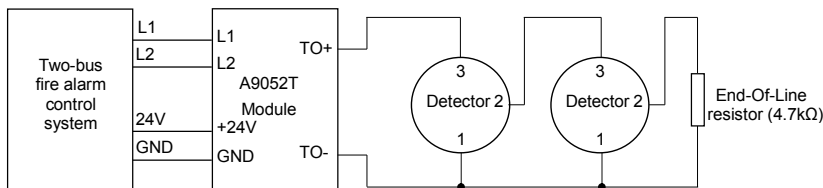Connection with a detector (see Fig.3)

Fig.3

Note: The 24V power supply may be a DC24V provided on site; when in use, the A9052T module must be connected to a 4.7kΩ End-Of-Line resistor.

4. Installation and debugging

1) Make sure the type of the module matches the type given on the construction drawings.
2) Connect the 4-pin coding plug on the coder with the 4-pin coding socket (see Fig.1) on the main body of the A9052T module, and then set the coder with the coding function and compile the correct address code to finish the address coding.
3) Wiring correctly as Fig.3.
4) Use two M4 screws to fix the module base via the two screw holes shown in Fig.2, then insert the main body of the A9052T module into the module base and make sure they contact each other properly.
5) After the A9052T module is installed and checked, connect the power supply of the fire alarm control system. Upon successful login, the inspection indicator of the A9052T module will blink once about every 12 seconds, which suggests that the A9052T module has begun to operate.
6) Connecting the conventional devices to the A9052T module, and simulate an alarm through a conventional devices (such as a conventional smoke detector). After that, the A9052T module will send an alarm signal to the fire alarm control system and have its indicator lit, which suggests that the A9052T module has begun to operate.
7) After debugging, reset the A9052T module and conventional devices by resetting the panel.

5. Precautions

1) When connecting the A9052T module with a detector, do not connect the positive and negative poles inversely.
2) At most, 30 detectors can be connected in parallel after an A9052T module.
3) The address of the devices (such as A9052T) in one loop should be different from each other, otherwise the panel will report an "address conflict fault".
4) Confirm the type of the conventional device connected to the A9052T module (feedback device or fire alarm device) and set the corresponding device type of the A9052T module in the fire alarm control panel. After automatic login, the A9052T module will treat the conventional device as fire alarm device by default.