PRODUCT INFORMATION

Description

The Double Action Fire Alarm Station, Model 278, is a component of the Signature Series. The 278 is a normally-open, dry contact signal initiating device that requires two actions by the user in order to initiate an alarm. First, the upper door marked LIFT THEN PULL HANDLE must be raised to access the alarm handle. Second, the alarm handle must be pulled to initiate an alarm. The single input module mounted to the back of the unit supervises the station and sends an alarm signal to the loop controller when the switch is closed (i.e. when the handle is pulled).

Device addressing

One device address is required. The loop controller assigns an address to the 278 automatically. A custom address can be assigned to the station via laptop computer; no addressing switches are used.

LEDs

Diagnostic LEDs provide visible indication of the status of the module when the unit is removed from the electrictal box.

Normal: Green LED flashes
Alarm/active: Red LED flashes

Mounting

The 278 can be mounted in a North American 2-1/2 in (64 mm) deep 1-gang box, standard 4 in square 1-1/2 in (38 mm) deep box with 1-gang cover, or European 100 mm square box. The terminal blocks will accept 12, 14, 16, or 18 AWG wire (2.5, 1.5, 1.0, or 0.75 sq mm). Sizes 16 and 18 are preferred.

System controller compatibility

The 278 requires the Signature Loop Controller.

Personality code 1: N/O alarm latching (Class B)

The 278 has a factory assigned personality code 1. Personality code 1 configures the 278 for Class B operation. When the pull lever is activated, an alarm signal is sent to the Loop Controller and the alarm condition is latched at the fire alarm station.

WARNINGS

This device will NOT operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your local fire protection specialist.

SPECIFICATIONS

Operating voltage range: 15.2 - 19.95 Vdc

Standby current: 250 µA

Activated current: 400 µA

Operating temperature range: 32 to 120 °F (0 to 49 °C)

Operating humidity range: 0 to 93 % RH

Construction: High impact plastic with steel backplate

Operating mechanism: Double action, pull lever

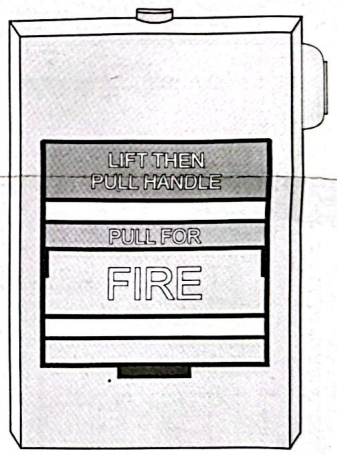
Shipping Weight: 1.0 lbs (0.4 kg)

Compatible electrical boxes
North American 2-1/2 in (64 mm) deep 1-gang box
Standard 4 in square box 1-1/2 in (38 mm) deep box with 1-gang cover

Replacement glass rods
USA, P/N 276-GLR (pkg 20 rods)
CAN, P/N 276-GLR (pkg 20 rods)

Special order surface mount boxes
27193-10: Cream enamel finish

PRODUCT DIAGRAM



INSTALLATION SHEET

ADT-278
Double Action Fire Alarm Station

INSTALLATION SHEET P/N: 3100239	FILE NAME: 3100239.CDR
REVISION LEVEL: 1.0	APPROVED BY: B. Wanek
DATE: 06OCT00	CREATED BY: B. Graham

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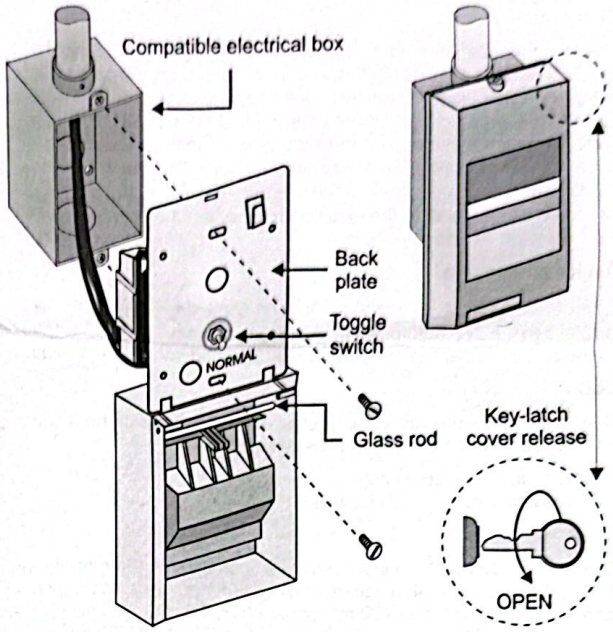
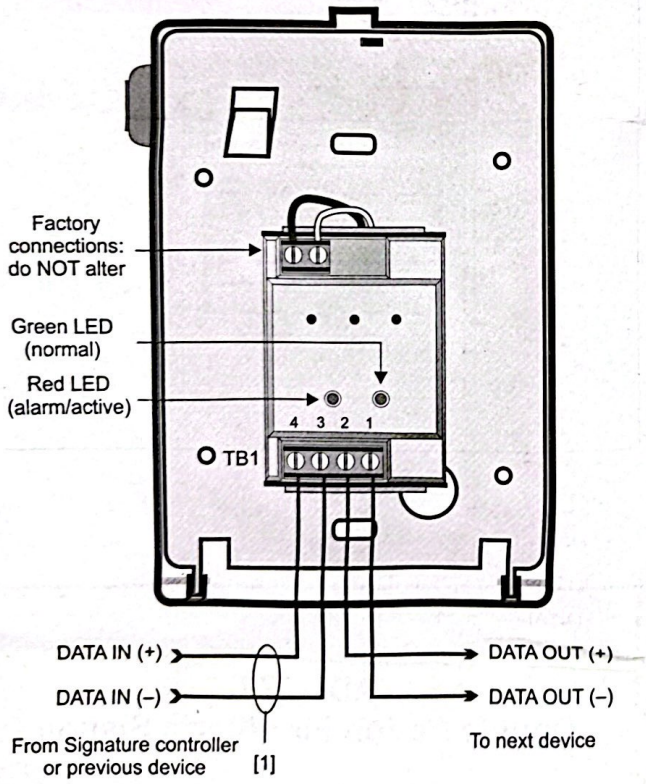
INSTALLATION INSTRUCTIONS

1) **The 278 is shipped from the factory as an assembled unit; it contains no user-serviceable parts and should NOT be disassembled.**
2) Open the pull station. Insert the key into the key-latch cover release and rotate the key while pulling the cover away from its backplate.
3) Verify that all field wiring is free of opens, shorts, and ground faults.
4) Make all wiring connections as shown in the wiring diagram.
5) Write the address assigned to the module on the label provided and apply the label to the module. Peel off the removable serial number label from the module and apply it to the appropriate location in the serial number logbook.
6) Using the two 6-32 x 1/2 in (13 mm) machine screws provided, mount the pull station to the electrical box.
7) Install the glass rod through the mounting bracket inside of the pull station. Set the toggle switch to the NORMAL position, and snap the cover into its locked position.



WIRING DIAGRAM



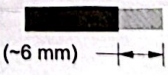
REAR VIEW of 278

Notes

[1] Refer to Signature Loop Controller Installation Sheet for wiring specifications.

2 All wiring is power-limited and supervised.

Wire Stripping Guide



Strip 1/4 in (about 6 mm) from the ends of ALL wires that connect to the terminal block of the module.

CAUTION: Exposing more wire may cause a ground fault. Exposing less wire may result in a faulty connection.