Kidde K-278B-1120

Kidde Fire Alarm Pull Station User Manual

Model: K-278B-1120
Brand: Kidde

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the proper installation, operation, and maintenance of the Kidde K-278B-1120 Fire Alarm Pull Station. This device is designed to manually initiate a fire alarm signal within a conventional fire alarm system.

The Kidde K-278B-1120 is a double-action, key-reset pull station featuring a red finish and designed for wall mounting. It is intended for use with 24V DC/125V AC conventional fire alarm systems.

2. SAFETY INFORMATION

Important Safety Instructions:

- Installation of this fire alarm pull station should only be performed by qualified personnel in accordance with all local and national electrical codes and fire safety regulations.

- Always disconnect power to the fire alarm control panel before performing any installation, maintenance, or troubleshooting.

- Do not paint over the pull station or obstruct its operation in any way.

- Regular testing of the fire alarm system, including pull stations, is crucial for ensuring proper functionality. Refer to local fire codes for testing frequency.

- This device is part of a life safety system. Any malfunction or damage must be addressed immediately by a qualified technician.

3. COMPONENTS

The Kidde K-278B-1120 Fire Alarm Pull Station consists of the following primary components:

- **Red Housing:** The main body of the pull station, designed for visibility.

- **Activation Handle:** The mechanism labeled "PULL FOR FIRE" that is pulled to activate the alarm.

- **Lift Cover:** The upper part of the handle mechanism, labeled "LIFT THEN PULL HANDLE," which must be lifted before the handle can be pulled.

- **Key Reset Mechanism:** A key-operated lock used to reset the pull station after activation.
- **Electrical Terminals:** Located inside the housing for connection to the fire alarm control panel wiring.

This image displays the front view of the Kidde Fire Alarm Pull Station, highlighting its red finish and the clear instructions for activation: "LIFT THEN PULL HANDLE" and "PULL FOR FIRE". The Kidde logo is visible at the bottom.

4. SETUP AND INSTALLATION

The Kidde K-278B-1120 Fire Alarm Pull Station is designed for wall mounting and integration into conventional fire alarm systems. Professional installation is highly recommended to ensure compliance with safety standards and proper system functionality.

4.1. Pre-Installation Checks

- Verify that the fire alarm control panel is compatible with a 24V DC or 125V AC manual pull station.
- Ensure the installation location meets local fire code requirements for visibility and accessibility.
- Confirm all necessary wiring and conduit are in place.

4.2. Mounting

1. Turn off all power to the fire alarm control panel.
2. Mount the pull station securely to a standard electrical box or directly to the wall using appropriate fasteners. Ensure it is level and firmly attached.
3. Route the system wiring into the pull station's housing.

4.3. Wiring

1. Connect the fire alarm circuit wiring to the designated terminals inside the pull station. Refer to the wiring diagram provided with your fire alarm control panel and the pull station's internal labels for correct polarity and connections.
2. Ensure all connections are secure and insulated.
3. Close the pull station housing carefully after wiring is complete.

4.4. Post-Installation Test

After installation, power up the fire alarm control panel and perform a functional test of the pull station

according to the fire alarm system's testing procedures. This typically involves activating the pull station and verifying that the alarm signal is received by the control panel and annunciated.

5. OPERATION

The Kidde K-278B-1120 is a double-action pull station, requiring two distinct movements to activate the alarm.

5.1. Activating the Alarm

1. In the event of a fire or emergency requiring alarm activation,**LIFT** the upper cover of the pull station, which is labeled "LIFT THEN PULL HANDLE".

2. Once the cover is lifted,**PULL DOWN** the handle labeled "PULL FOR FIRE" firmly.

3. This action will send an alarm signal to the connected fire alarm control panel, initiating the building's fire alarm sequence.

5.2. Resetting the Pull Station

After activation, the pull station must be reset using its key to return it to its normal, non-alarm state.

1. Insert the provided reset key into the keyhole on the side or front of the pull station.

2. Turn the key as indicated (usually a quarter turn) to release the activated handle.

3. Return the handle to its original, upright position.

4. Remove the key. The pull station is now reset and ready for future use.

6. MAINTENANCE

Regular maintenance ensures the reliability and longevity of your fire alarm pull station.

- **Visual Inspection:** Periodically inspect the pull station for any signs of physical damage, tampering, or obstruction. Ensure the "LIFT THEN PULL HANDLE" and "PULL FOR FIRE" labels are clear and legible.

- **Cleaning:** Gently wipe the exterior of the pull station with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- **Functional Testing:** Conduct periodic functional tests as required by local fire codes and the fire alarm system manufacturer's recommendations. This typically involves activating the pull station and verifying the alarm, then resetting it.

- **Key Management:** Keep the reset key in a secure, accessible location known only to authorized personnel.

7. TROUBLESHOOTING

If you encounter issues with your Kidde K-278B-1120 Fire Alarm Pull Station, consider the following:

Problem	Possible Cause	Solution
Pull station does not activate alarm.	Improper wiring; Faulty pull station; Issue with fire alarm control panel.	Verify wiring connections. Test with a multimeter if qualified. Contact a qualified fire alarm technician for inspection and repair.

Problem	Possible Cause	Solution
Pull station cannot be reset.	Incorrect key; Damaged reset mechanism; Obstruction.	Ensure the correct key is used. Check for any physical obstructions. If mechanism is damaged, contact a qualified technician for replacement.
Alarm activates without pulling the handle.	Faulty pull station; Wiring short; Issue with fire alarm control panel.	Immediately contact a qualified fire alarm technician to diagnose and resolve the issue. This indicates a critical system fault.

For any issues that cannot be resolved with the above steps, or for any concerns regarding the fire alarm system, always contact a qualified fire alarm system technician.

8. SPECIFICATIONS

Attribute	Detail
Model Number	K-278B-1120
Brand	Kidde
Color	Red
Activation Type	Double Action (Lift then Pull)
Reset Type	Key Reset
Mounting Type	Wall Mounting
Dimensions (Approximate)	Length: 3 9/16 in (9.05 cm) Height: 5 3/16 in (13.18 cm) Depth: 3 5/8 in (9.21 cm)
Weight	0.8 ounces (approx. 22.7 grams)
Compatibility	24V DC / 125V AC Conventional Fire Alarm Systems
Humidity Range	Up to 95% RH (non-condensing)

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Kidde K-278B-1120 Fire Alarm Pull Station, please refer to the documentation included with your purchase or contact Kidde directly. Warranty terms may vary based on region and purchase date.

For technical support, product inquiries, or to locate authorized service providers, please visit the official Kidde website or contact their customer service department.

You can find more information about Kidde products by visiting the Kidde Store on Amazon.

Documents - Kidde – K-278B-1120

[pdf] Specifications Datasheet Catalog

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