



FIRE DETECTION DEVICES LTD.

Durable . Reliable . Trusted . Canadian



Bank Vault & Vestibule Models 7050 and 7050-C

Features

- Cast aluminum housing
- Specially designed to respond to a rate of temperature increase resulting from an attack on a vault or safe door.
- Intended to be connected to a U.L. listed burglar alarm

Dimensions:

Diameter 3.0 in (7.65 cm)

Height 2 in (4.85 cm)

Weight:

0.41 lbs (0.19 kg)

Overview

Fire Detection Devices offers the standard CR 135 detector specially designed to respond to a rate of temperature increase resulting from an attack on a vault or safe door. The unit is calibrated to recognize a rate of increase of 4 Celsius degrees per minute. The Models 7050 and 7050-C comply with the requirements set out in UL 681. ***The Model 7050 is UL and ULC listed under control number 97Y8.***

Contact Configuration

The Model 7050 typically has no marking on the heat-collecting fin. It is labeled with a blue ink as opposed to the standard black ink.

The Model 7050 is available in Normally Open (the most common) or Normally Closed contacts. The Model Number does not reflect the Normally Open configuration, however the suffix "C" denotes Normally Closed, for example "7050 C" describes a heat detector suitable for vault and safe protection, with normally closed contacts.

Combination Rate-of-Rise & Fixed Temperature

The **Models 7050** and **7050-C** are a combination Rate-of-Rise and Fixed Temperature detector. In Model 7050, a set of normally open contacts will close when the surrounding air temperature increases at a (minimum) rate of 4 Celsius degrees (6 degrees F.) per minute. Closing the contacts initiates the alarm sequence. The opposite sequence happens in model 7050-C. Independent of the rate-of-rise operation, the fixed temperature portion consists of a spring-loaded plunger retained by a fusible alloy that releases when the ceiling temperature reaches 57 degrees Celsius, (135 degrees F). When released, the plunger strikes the contacts and holds them closed in 7050 and open in 7050-C.



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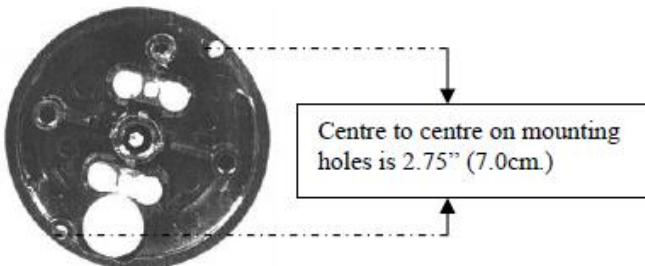
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Engineering Specifications:

- The Model 7050 is shipped without the adapter plate that is used when mounting a standard detector to an octagon back box. As mounting space is at a premium, the adapter plate is unnecessary. The unit should be mounted so that it is not subject to damage during normal use of the vault or safe.
- The unit is calibrated to recognize a rate of increase of 4 Celsius degrees per minute. The Models 7050 and 7050-C comply with the requirements set out in UL 681.

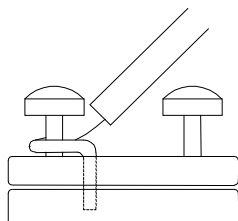
Installation:

The **Model 7050** is installed on brackets on the door inside the vault, with the heat collector facing toward the door. It is important that the brackets are arranged so that they will not interfere with convection currents that may pass by the detector. The unit may be vestibule mounted as well providing that it is as close as possible to the vault door in the closed position.



**Contact Rating: 3A @ 125 VAC,
1A @ 28 VDC, 0.3A @ 125
VDC, 0.1 A @ 250 VDC**

The Model 7050 is intended to be connected to a U.L. listed burglar alarm



All wiring must be installed in compliance with the local Electrical Code using approved cable, AWG 22 minimum. Begin electrical connections by stripping approximately 1" (2.5 cm.) from the end of each wire. Insert the stripped end into the wire-retaining hole in the terminal bar, wrap clockwise around the terminal screw, and tighten.