



# 10-1642 KEYED ABORT SWITCH INSTALLATION INSTRUCTIONS

An ISO 9001:2008 Company



## DESCRIPTION

The Keyed Abort switch is an accessory unit for use with Fike's Fire Suppression control panels. The assembly consists of a keyed, two-position switch, normally-open contact block, normally-closed contact block, and stainless steel switch plate with adhesive label. The switch is used to delay the release of the suppression system when initiated by automatic detection.

## APPLICATION

With the switch set to the "NORM" position, the suppression system will operate normally. To operate the switch, the operator must insert the key, push in and turn the switch to the "ABORT" position. In this position, an input signal is sent to the control panel that delays the release of the suppression system when initiated by automatic detection. As long as the switch is in the "ABORT" position, the suppression system will not release unless it is overridden by a manual release input. Upon return of the switch to the "NORM" position, the release circuit is activated, unless the control panel has been reset to the non-alarm condition.

**NOTE:** Fike's control panels provide programmable abort types with different operational characteristics. The operation described above is general in nature and does not fully describe the function of each abort type. Refer to the associated control panel manual for further description of each abort type.

**NOTE:** The Keyed Abort switch is NOT approved for use by approval agencies. Use of this switch must be approved by the local Authority Having Jurisdiction.

## SPECIFICATIONS

- Operating temperature: 0°C to 49°C (32°F to 120°F)
- Operating humidity: 93% RH, non-condensing
- Weight: 0.45 lb (204 grams)
- Mounting: Two-gang masonry box (RACO 691) or equivalent with a minimum depth of 2.125 inch (54 mm)  
*Electrical box not included.*
- For indoor use only

## ORDERING INFORMATION

| Part Number          | Description                               |
|----------------------|---|
| 10-1642              | Keyed Abort switch assembly               |
| 10-1425 <sup>1</sup> | Keyed Abort switch                        |
| 02-2130 <sup>2</sup> | Contact Block, normally closed (NC)       |
| 02-2150 <sup>2</sup> | Contact Block, normally open (NO)         |
| 02-2138 <sup>2</sup> | Adhesive Label, Abort                     |
| 10-104               | Stainless Steel Face Plate w/ mtg. screws |
| 10-1419 <sup>1</sup> | Stainless Steel Plate                     |
| 02-2316 <sup>2</sup> | Mounting Screws (4 required)              |
| 02-4192 <sup>2</sup> | Key, #0                                   |
| 02-2153              | 2-Gang Masonry Box, RACO 691              |

<sup>1</sup>Included in 10-1642 switch assembly.  
<sup>2</sup>Included in 10-1425 switch assembly.

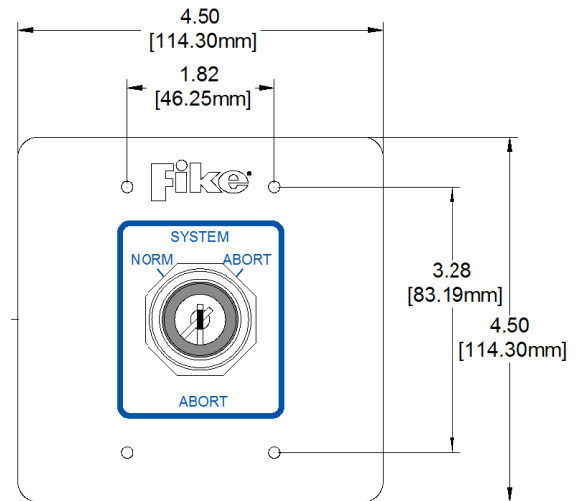


Figure 1 Switch Front View (inches/mm)

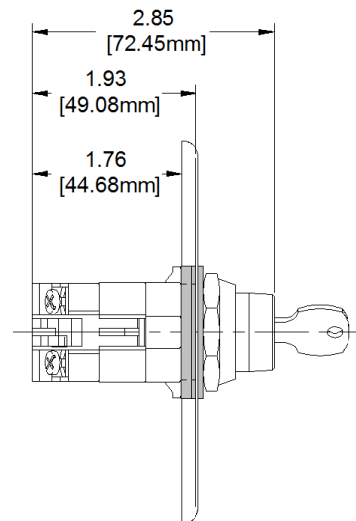


Figure 2 Switch Side View (inches/mm)

## SWITCH ASSEMBLY

The keyed abort switch components are shipped disassembled and must be assembled prior to installation using the following instructions. See Figure 3 for switch assembly diagram.

1. Remove protective plastic film from stainless steel face plate and apply adhesive label, orientated as shown in Figure 1.
2. Remove locking ring bezel from switch base.
3. Remove single anti-rotation ring washer from the switch base.
4. From the backside of the face plate, insert switch base through the mounting hole provided.
5. Install anti-rotation ring washer removed in Step 3 over the switch base as it protrudes through the front side of the face plate.
6. Install and hand tighten locking ring bezel (45 in-lb.).
7. Install contact blocks to switch base.

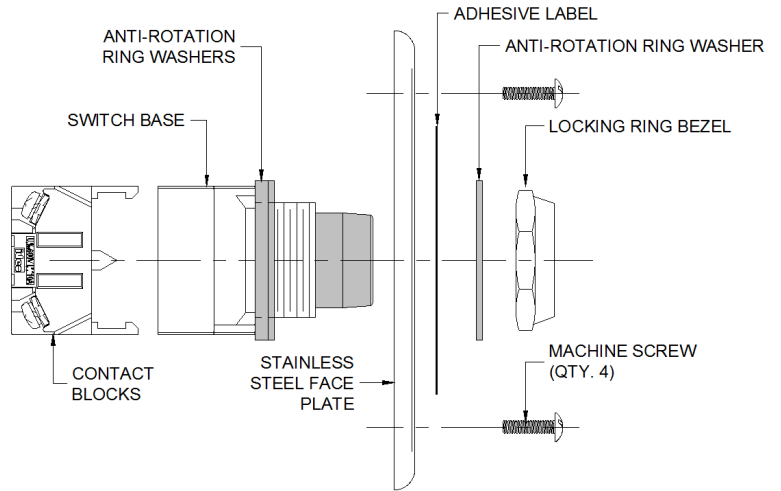


Figure 3 Switch Assembly

## SWITCH INSTALLATION

**STOP** **WARNING:** *If installing the abort switch in an operational system: 1) Disconnect the releasing mechanism from all suppression cylinders/containers prior to installation to prevent accidental system discharge. 2) Power down the system by removing all power sources feeding the control unit (AC and DC).*

The mounting location for the switch should be free from excessive vibration, dust, and moisture.

1. Install mounting box (recess or surface mount), as shown in Figure 4.
2. Pull field wiring into mounting box.
3. Connect field wiring to contact block. See Figure 5 for wiring diagrams.
4. Secure stainless steel faceplate to masonry box with supplied machine screws.
5. Reapply power and test switch operation prior to reconnecting releasing mechanism to all suppression cylinders/containers.
6. Store switch keys in a secure location.

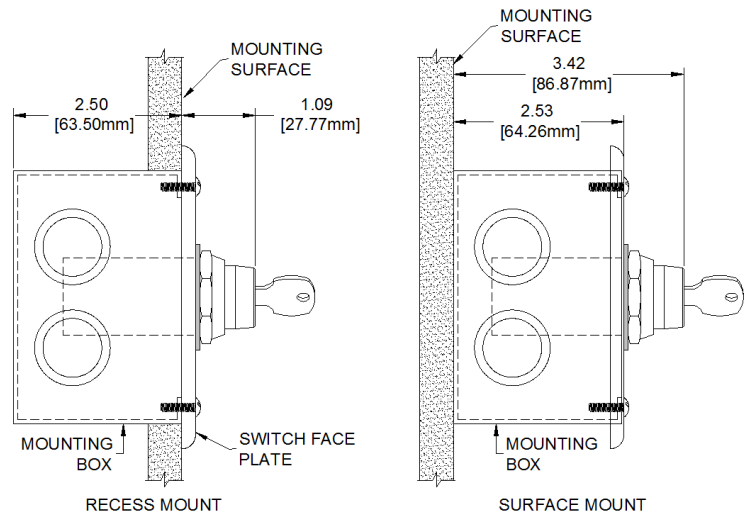
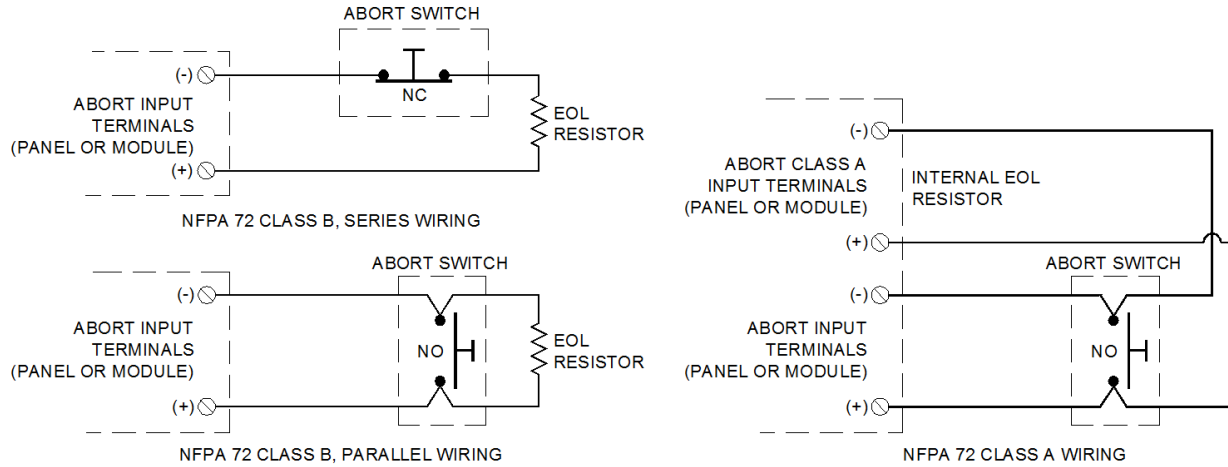


Figure 4 Mounting Options

# SWITCH WIRING



SEE CONTROL UNIT MANUAL FOR SPECIFIC WIRING REQUIREMENTS.

**Figure 5 Typical Abort Circuit Wiring**

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**Warranty**

Fike provides a one-year limited manufacturer's warranty on this product. All warranty returns must be returned from an authorized Fike Distributor. Contact Fike's Marketing department for further warranty information.

Fike maintains a repair department that is available to repair and return existing electronic components or exchange/purchase previously repaired inventory components (advance replacement). All returns must be approved prior to return. A Material Return Authorization (MRA) number must be indicated on the box of the item being returned. Contact the appropriate Regional Sales Manager for further information regarding product return procedures.

**Limitations of Liability**

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While every precaution has been taken during the preparation of this document to ensure the accuracy of its content, Fike assumes no responsibility for errors or omissions.

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