Key Maintenance Switch

Effective: June 2018
K-83-200

FEATURES

- **Stainless Steel Plate**
- **Status LED Indicator**
- **Surface or Flush Mount Installations**
- **Key Operated (Nonremovable When Operated)**
- **Safely Disconnects Actuation Circuit by Shunting Metron Actuators**

DESCRIPTION

The Key Maintenance Switch disconnects a single actuation circuit in the system and shunts the metron to prevent an accidental discharge during maintenance operations. Alternatively, the Key Maintenance Switch may be used to disconnect a single detection circuit, when that circuit is only wired with powered detectors.

The Key Maintenance Switch is compatible with Kidde Fire Systems Vehicle panels. Refer to the installation wiring diagram for detailed wiring connections.

- A single LED illuminates to indicate "SYSTEM ARMED" when the key is removed. The key can only be removed in the armed position. When the key is inserted and turned to disconnect the circuit, the LED will not illuminate.
- Mounts to a 4.25-inch backbox and operates on 24 Vdc.
- Physically disconnects the circuit wiring, causes a trouble signal, and provides a means to generate a supervisory condition.

ORDERING INFORMATION

Description	Part Number
Key Maintenance Switch	83-132483-600
Metron	See Panel Manual
Detector, IR *	83-132700-000
Backbox	BY OTHERS
* Only allowed device style when fitting Key Maintenance Switch onto detection circuit.	

ELECTRICAL

Switch: 3 x SPST switches (NO)

3 x SPST switches (NC)

- One NC contact controls the indicator on the mounting plate.

- One NO contact wires into the supervisory circuit on the interfacing panel.

- The remaining contact breaks the actuation circuit and shunts the metron when wired in accordance with Figure 1.

Contact Ratings: 8A @ up to 24 Vdc

ENVIRONMENTAL

Operating Temperature Range: -13°F to 122°F (-25°C to 50°C)

Storage Temperature Range: -40°F to 158°F (-40°C to 70°C)

MECHANICAL

Mechanical Life: 100,000 cycles

Switch Plate Construction: Stainless Steel

Shipping Weight: 8-1/2 oz. (241 g)

WIRING DIAGRAMS

Figure 1 and Figure 2 show wiring diagrams for the Key Maintenance Bypass Switch.

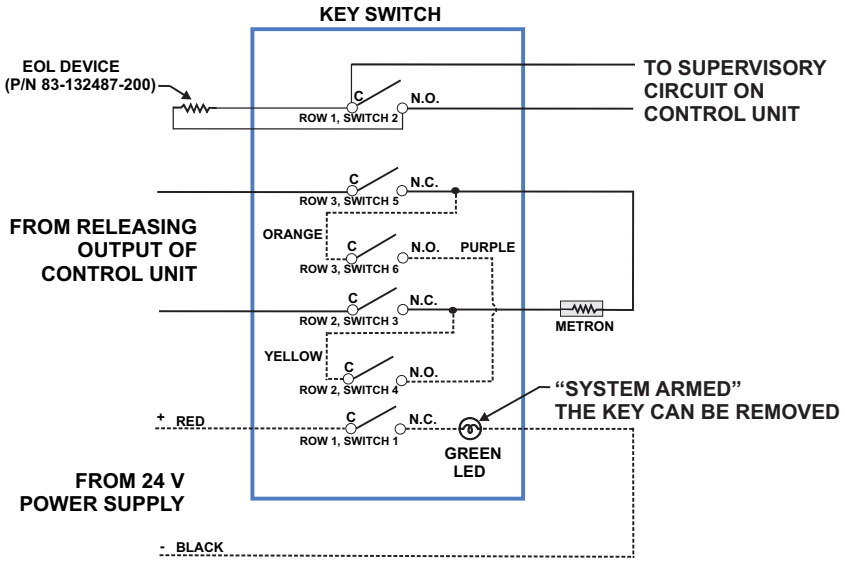

Figure 1. Wiring Diagram, Release Circuit with Key Removed

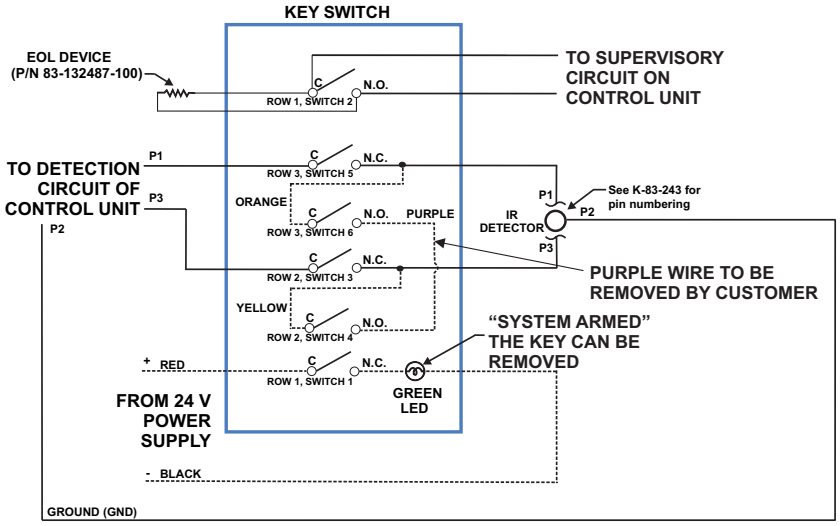

Figure 2. Wiring Diagram, Detection Circuit with Key Removed

Table 1: Wiring Diagram Legend for Figure 1 and Figure 2

Row	Switch
1	1 N.C. (RED)
	2 N.O. (BLUE)
2	3 N.C. (RED)
	4 N.O. (BLUE)
3	5 N.C. (RED)
	6 N.O. (BLUE)

Note:
Dashed Line: Provided Wires
Solid Line: Customer-provided Wires

WARNING

PURPLE WIRE REQUIRED BEFORE SWITCH INSTALLATION FOR RELEASE SERVICE. MISSING WIRE MAY ALLOW UNWANTED DISCHARGE.

WARNING

FAILURE TO REMOVE PURPLE WIRE FROM SWITCH FOR DETECTION SERVICE MAY RESULT IN UNWANTED SYSTEM DISCHARGE.

WARNING

DO NOT USE WITH NON-POWERED DEVICES.

DIMENSIONS

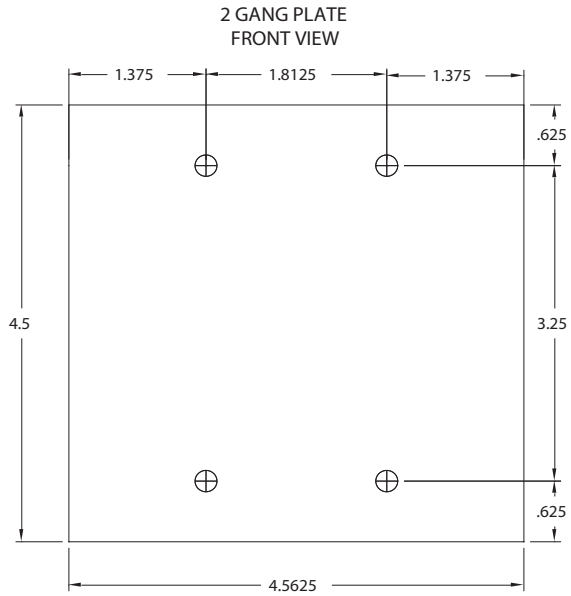

Figure 3

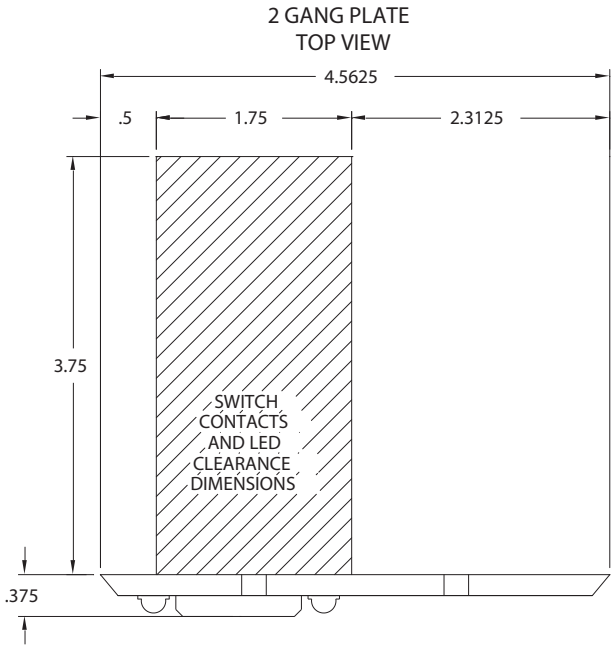

Figure 4

EXPORT INFORMATION (USA)
Jurisdiction: EAR
Classification: EAR99
This document contains technical data subject to the EAR.

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