SUPPRESSION DISCONNECT SWITCHES (P/N 10-2698 AND 10-2699)

Important Notices

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Specifications

Input Voltage:	15 – 30 VDC
Current Consumption:	13.1 mA (LED active)
Releasing Circuit Wiring:	Class B only
Dimensions (LxWxD):	4.5 in. x 4.5 in. x 2.125 in. (11.5cm x 11.5cm x 5.4cm
Weight:	0.55 lb. (0.25 kg)
Operating Temp:	0° to 49° C (32°to 120° F)
Operating Humidity:	93% Relative Humidity
Contact Ratings:	8A @ 24 VDC Resistive 4A @ 24 VDC Inductive
Compatible Panels:	All Fike Control Panels

Safety Notices

Read all of the following safety notices before attempting to install or use this device. Personal injury or accidental release of the suppression system may result if the following instructions are not followed.

STOP WARNING

1. The SHP, SHP-Pro, Rhino, and Intella-Scan control panels are equipped with an ARM/DISABLE switch for the releasing circuit(s). If using the Suppression Disconnect switch with these panels, the ARM/DISABLE switch on the panel must be in the ARM position for the switch to operate properly. DO NOT use the ARM/DISABLE switch simultaneously with the Suppression Disconnect switch.
2. A manual actuator can also be used to fire the GCA's connected to an ARM. It is extremely important to make sure the GCA is not connected to a manual actuator before considering the circuit "DISARMED".

⚠CAUTION

1. Only releasing devices that are connected to the Suppression Disconnect switch will be disconnected by the user operated key switch.
2. The Suppression Disconnect switch DOES NOT remove the firing charge stored in the ARM or IRM capacitors. It simply disconnects the charging current to the releasing circuit. Before servicing the system, wait 7-10 minutes for the capacitor's charge to dissipate. The wait time does not apply to Solenoids or Universal Valve Operators (UVO).

Switch Assembly

The disconnect switch is shipped unassembled and must be assembled in the field using the following instructions:

1. Remove the switch components (faceplate and switch) from the shipping package.
2. Remove the operator from the contact block by pulling up the locking lever and turning it to the left as shown in Figure 1.

❶ Pull up the locking lever. ❸ Pull out the contact block.

Figure 1: Removing and Installing the Contact Block

Note: Switch contacts will transfer to the ENABLED position when the operator is removed from contact block.

3. Remove the locking ring from the operator and insert the operator into the switch faceplate from the front as shown in Figure 2. Reinstall the locking ring onto the operator from the back and tighten with pliers or locking ring wrench (02-12318), making sure that the TOP marking on the operator is aligned with the top center of the faceplate.

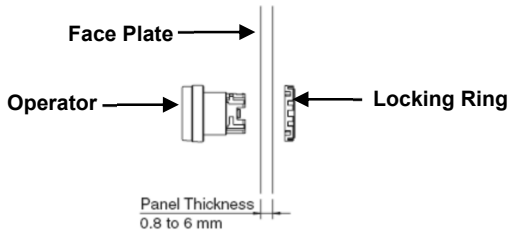


Figure 2: Operator Installation

4. Insert the operator into the contact block making sure that the IDEC marking on the contact block is facing the same direction as the TOP marking on the operator. Turn the locking lever to the right.

Switch Installation and Testing

The Suppression Disconnect switch is installed into the releasing circuit between the associated control panel or releasing module and the releasing device itself.

The following steps must be followed in order to properly install and test the operation of the suppression disconnect switch. Failure to follow these steps could result in improper operation or accidental release of the suppression system.

Installation and Testing Steps:

1. Disconnect releasing circuit(s) from the host control panel or releasing module. If applicable, allow 7-10 minutes for capacitor charge on the ARM or IRM module(s) to dissipate. The wait time does not apply to Solenoids or Universal Valve Operators (UVO).
2. Disarm the suppression system following the recommended procedure for each type of releasing device (ARM/IRM). For releasing solenoids, disconnect the coil operator from the valve.

WARNING

Failure to disconnect the releasing circuit(s) and disarm the releasing device(s) prior to installation of the switch may result in accidental discharge of the suppression system.

NOTE: Refer to Fike documents 06-106 and 06-552 respectively for ARM and IRM disarming procedure.

3. Select appropriate location for mounting switch and secure back-box to wall with suitable anchors.

Back Box Options

Switch without LEDs

- Surface mount = two-gang masonry box (Raco 691 or equal) with a depth of 2.5” (6.35cm).
- Flush mount = two-gang mud ring (raised ½” minimum) on a 4 in square x 2-1/8” deep box.

Switch with LEDs

- Surface mount = two-gang masonry box (Raco 696 or equal) with a depth of 3.5” (8.89cm).
- Flush mount = two-gang mud ring on a 4 in square x 3-1/2” deep box (Raco 256 or equal).

4. Route conduit and field wiring (i.e., releasing circuit, auxiliary power and supervisory circuit) into back-box. Verify that wiring is free from ground fault or short-circuit conditions before proceeding.
5. Connect field wiring to appropriate terminals on the switch contact block as shown in Figures 3 and 4, making sure to observe circuit polarity.
6. Reconnect releasing circuit(s) to the host control panel or releasing module. Do NOT reconnect releasing devices (i.e., ARM, IRM or Solenoids) at this time.
7. Functionally test the operation of the disconnect switch in both the ARMED and DISARMED modes. Correct any problems before proceeding to next step.

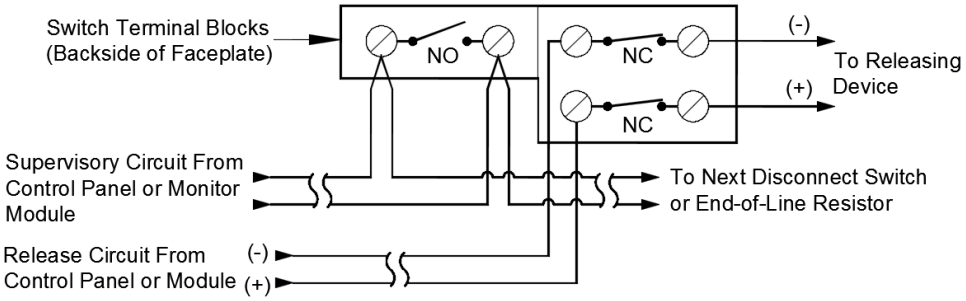
Armed Mode Operation

With the key switch in the ARMED (normal) position, the release device is connected to the associated control panel's releasing circuit. In this position, the switch does not interfere with panel supervision of the releasing circuit or releasing operations. The green LED on the faceplate illuminates steady to indicate the ARMED status of the circuit.

NOTE: The key can only be removed in the ARMED position.

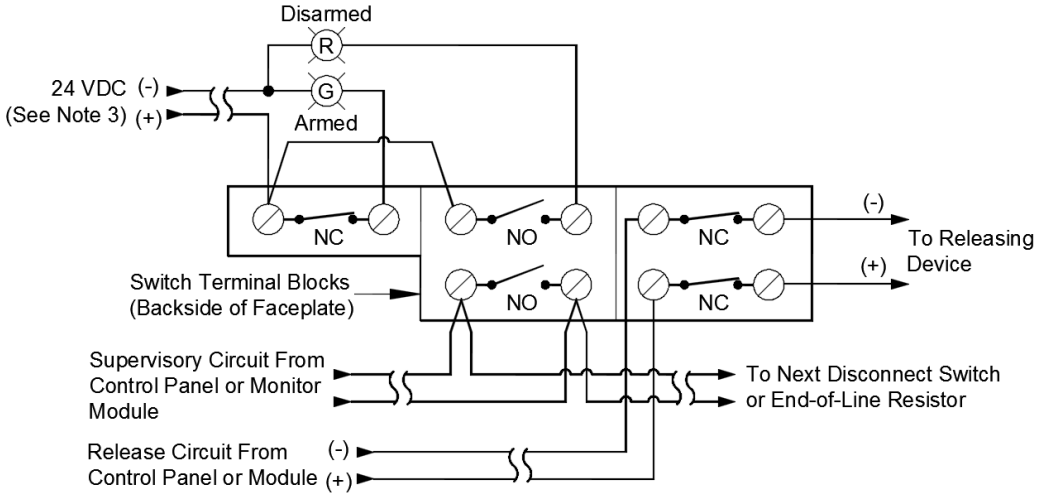
Disarmed Mode Operation

With the key switch in the DISARMED (maintenance) position, the connected release device is electrically isolated from the releasing circuit and will not activate when the associated control panel enters the *Release State*. A trouble and supervisory event will be displayed on the associated control panel to indicate the open circuit. The green LED on the faceplate will turn off and the red LED will turn on to indicate the **DISARMED** status of the circuit.



Notes:
1. Wiring diagram shows switch in the ARMED position.
2. All wiring shown is supervised and power-limited.

Figure 3: Wiring Diagram of Switch without LEDs



Notes:
1. Wiring diagram shows switch in the ARMED position.
2. All wiring shown is supervised and power-limited.
3. Power to LEDs shall come from the control panel or from a battery backed 24 VDC, regulated, power-limited power supply listed for Fire Protective Signaling Use.

Figure 4: Wiring Diagram of Switch with LEDs

8. Disconnect releasing circuit(s) from the host control panel or releasing module. Allow 7-10 minutes for capacitor charge on the ARM or IRM module(s) to dissipate if applicable.
9. Attach the disconnect faceplate to the back-box with supplied mounting screws and turn the key switch to DISARMED position.
10. Rearm the suppression system(s) following the recommended procedure for each type of releasing device (ARM/IRM). For releasing solenoids, reconnect the releasing circuit to the control panel or releasing module.

> **NOTE:** Refer to Fike documents 06-106 and 06-552 respectively for ARM and IRM arming procedure.

11. Turn the key switch to the ARMED position. The system is now operational.