

Installation Instructions

1.0 Description

The D130 Relay Module is an accessory that can be used with all Bosch Security Systems, Inc. control panels. For additional information, refer to the *D9412GV2/D7412GV2 Approved Applications Compliance Guide* P/N: F01U003638). This module has a 12 V/24 V relay with two sets of non-latching Form C contacts. The D130 allows the system to switch larger amounts of current or different voltages that are beyond the control panel's auxiliary power rating, or the rating of modules such as the D8129 OctoRelay.

Use the D130 with a D125 Powered Loop Interface and a 24 VDC power supply to interrupt power to 24 V smoke detectors with the Sensor Reset function at a keypad.

2.0 Specifications

Dimensions	70 mm x 76 mm (2.75 in. x 3.0 in.)	
Relay	5 A @ 30 VDC maximum 10 mA @ 5 VDC minimum	
Current	60 mA maximum	
Power Input	Nominal 12 VDC with jumper intact Nominal 24 VDC with jumper cut	
Power Supplies	UL1481 and UL864 Listed auxiliary 12 VDC or 24 VDC regulated, power limited power supply for Fire Protective Signaling Units and Commercial/Residential Burglar Units.	
Fire or Control Panel Cabling	Wiring Connection Requirements Maximum Wire Resistance: 1Ω	
	Maximum Distance	Wire Size
	60 ft	22 AWG
	160 ft	18 AWG
	15 m	0.6 mm
	40 m	1 mm

3.0 Operation

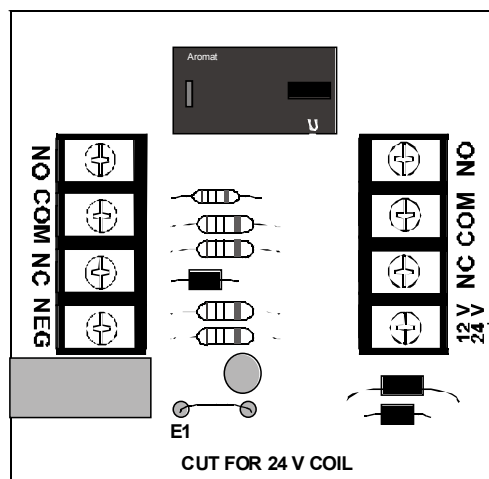


Figure 1: D130 Relay Module

The D130 uses a 12 V or 24 V power source to power its coil. The relay can be activated by switching positive or negative. When the contacts are in the inactive state, the normally closed (NC) terminal has continuity with the common (COM) terminal. In the active state, the normally open (NO) terminal has continuity with the COM terminal. A red LED indicates the coil of the relay is energized.



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Wiring Connections

4.0 Wiring Connections

4.1 D130 Relay with 12 VDC or 24 VDC Power Supply for Switched Auxiliary Power

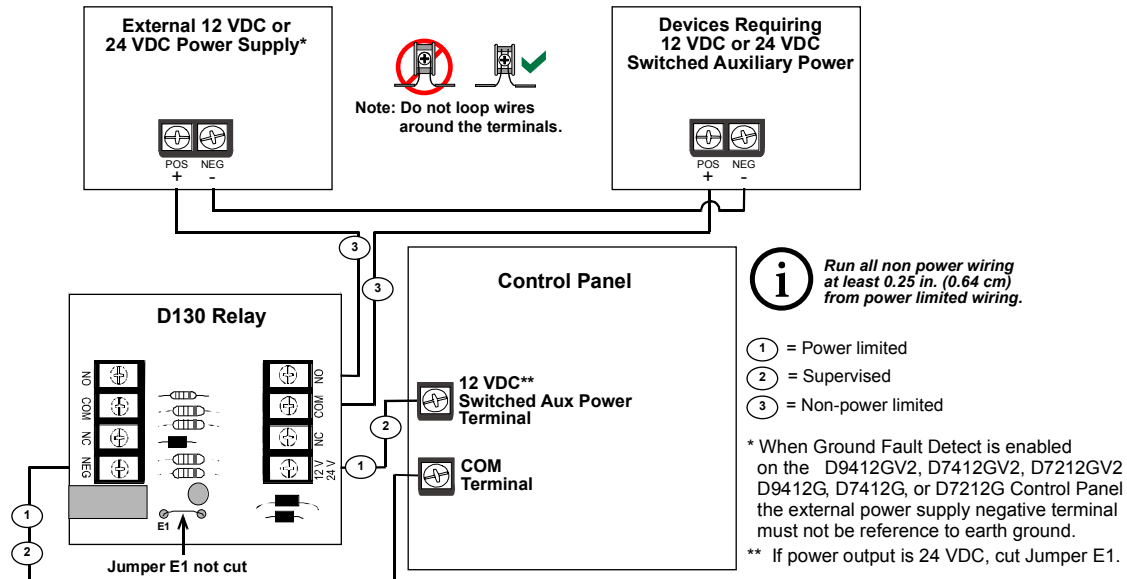


Figure 2: To Activate Devices Requiring 12 VDC or 24 VDC Switched Auxiliary Power

4.2 D130 Relay with a 12 VDC or 24 VDC Power Supply with Audible Devices

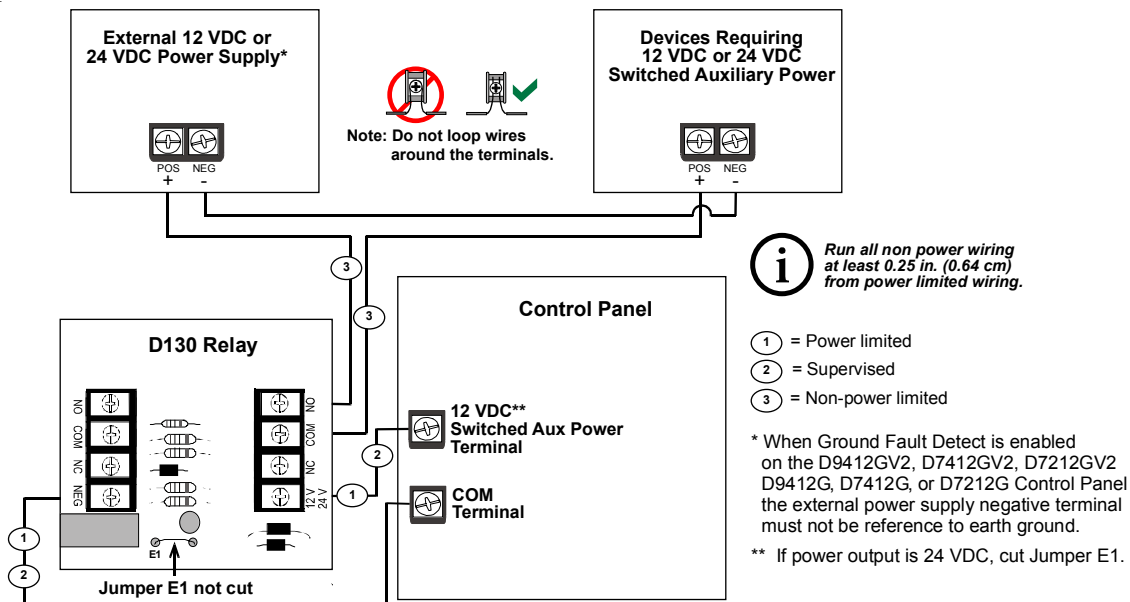
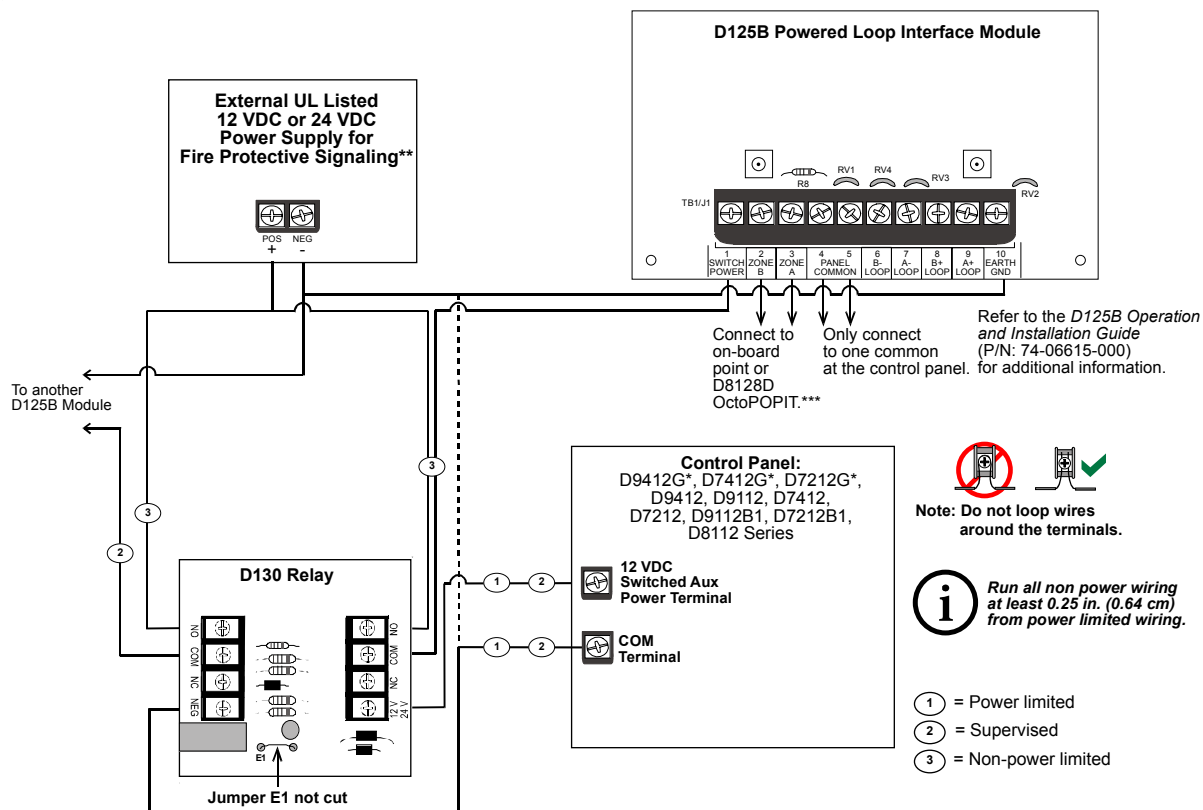


Figure 3: To Activate Audible Devices Requiring 12 VDC or 24 VDC Switched Auxiliary Power

4.3 D130 Relay with 12 VDC or 24 VDC Power Supply and D125B Module



To supervise the loops, install an end-of-line (EOL) resistor beyond the last detector of each protective loop. If you are replacing a D125 or D125A module with the D125B, you can use the 1.5 k Ω resistor (P/N: 15-03130-000) installed with the original system. If you are installing a D125B in a new system, or in an existing system and adding additional devices, use the 1.8 k Ω resistor (P/N: 15-03130-006) supplied with the module.



* ZONEX 2 is available on the D9412G, D9412, D9112, and D9112B1 Control Panels only.

** When Ground Fault Detect is enabled on the D9412GV2, D7412GV2, D7212GV2, D9412G, D7412G, or D7212G Control Panel, the external power supply negative terminal must not be referenced to earth ground.

*** The D125B can be connected to the D8128D OctoPOPIT for commercial fire applications when used with the D9412GV2, D7412GV2, D9412G, or D7412G Control Panels.

Figure 4: Using the D130 with the D125B Dual Class B Powered Loop Interface Module

4.4 D130 Relay with 12 VDC or 24 VDC Power Supply, D125B Module, and D8129 OctoRelay

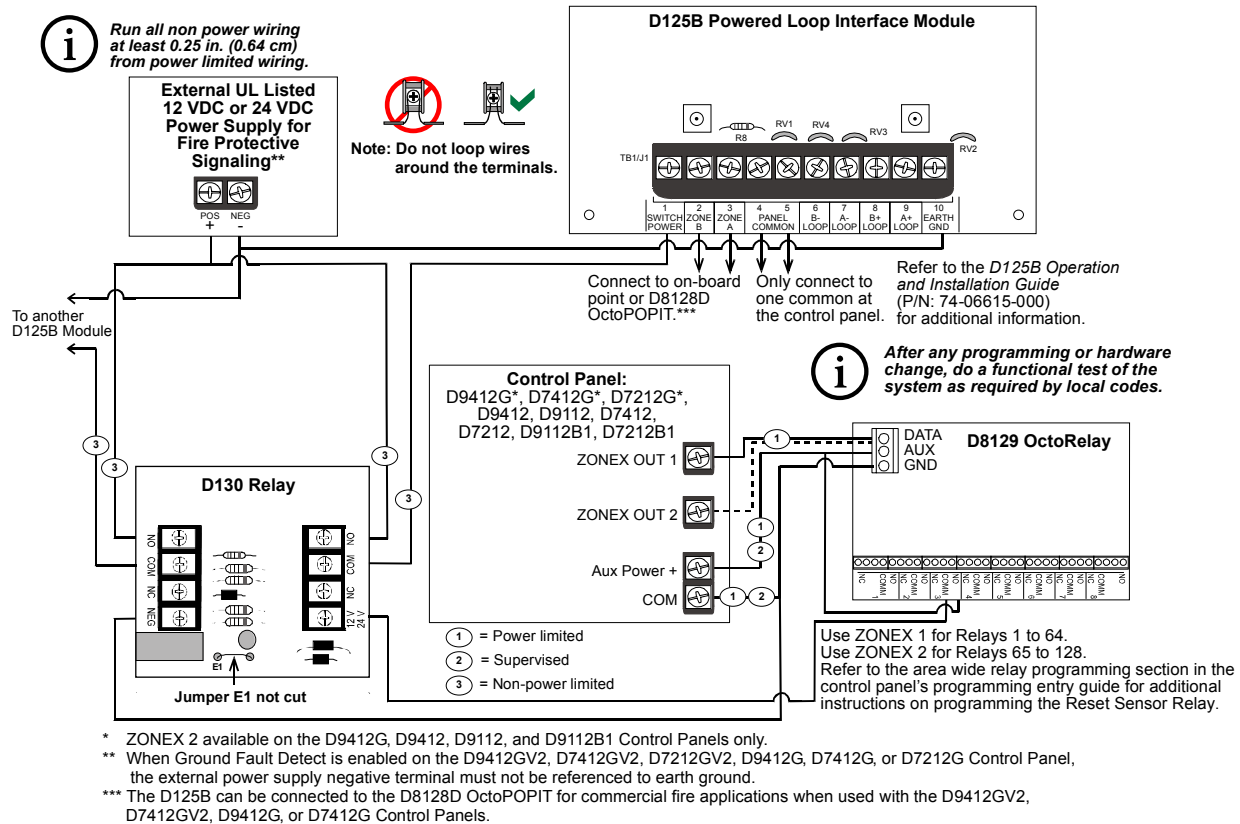


Figure 5: Using the D130 with the D125B Dual Class B Powered Loop Interface Module and OctoRelay

5.0 Mounting

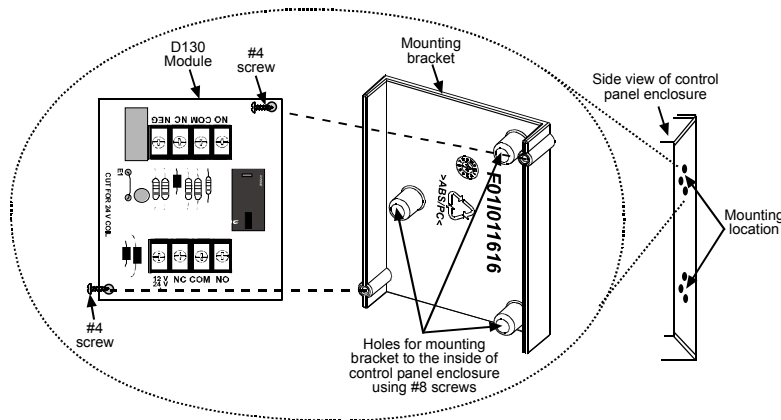


Figure 6: Mounting the D130

1. Using the two supplied #4 screws, attach the D130 to the supplied three-hole mounting bracket.
2. Align the mounting bracket and D130 with any standard three-hole mounting pattern in the control panel enclosure.
3. Using the three supplied #8 screws, secure the mounting bracket and D130 through either side of the control panel enclosure.



For system supervision, do not use looped wire under the terminals. Break the wire run to provide supervision of the connections.

