

D8130 Door Release Module

Installation Instructions

1.0 Description

The D8130 Door Release Module is an accessory for the D9412GV2, D7412GV2, D7212GV2, D9124GV2, D9412G, D7412G, D7212G, D9412, D7412, D7212, D9112, D9124, D8124, D8112, and D7112 Control Panels. The D8130 is designed for release applications commonly found in NFPA 72 fire alarm installations that include:

- Fire Door Release
- Elevator Recall
- Emergency Exit Door Unlock
- Heating, ventilation, and air conditioning (HVAC) Control



The D7212G/D7412GV2 is not Underwriters Laboratories, Inc. (UL) Listed for commercial fire applications.

Two independent dry Form "C" contacts (each rated at 5 A) connect low voltage circuits to magnetic door holders, pilot relays, or contactor units for release function control. Set the contact activation to instant when there is an alarm condition by setting the E1 jumper. If you select the Delay option (the jumper in the left position), a 14-second delay also occurs at restoral. The Delay feature is useful for momentary Bell Tests.



For commercial fire applications, set to instant.

The D8130 contacts are activated by the control panel's Alternate Alarm or the Auxiliary Relay normally open (NO) output. Refer to the corresponding operation and installation guide for details. The D8130's red Alarm Input LED indicates contact activation. The duration of the contact activation follows the programmed control panel bell time. If the alarm is manually silenced, the D8130 contacts are deactivated.



You must have latching features for pilot relays or contactor units requiring release control beyond the programmed alarm time or after manual alarm silencing.

For additional D8130 installation information, refer to the *D9412GV2/D7412GV2 Approved Applications Compliance Guide (P/N: F01U003639)*.

1.1 Disable Switch

To facilitate fire alarm installation testing, the D8130 has a supervised Disable switch to prevent door release operation. The D8130's amber Disable LED indicates when the switch is in the Disable position. You can connect one or more D8130 Modules to any unused 1 k Ω zone or point of the control panel to detect module disabling.

A trouble is indicated when the D8130 switch is in the Disable position. A restoral is sent when the switch is returned to the Normal position. Refer to the corresponding control panel program entry guide to program trouble on an open or short. When the contacts are activated with the switch in the Normal position, no trouble indications are sent to the control panel.

When connecting multiple D8130 Modules in parallel to a single supervisory loop, you must install a Bosch Model 105F 1 k Ω end-of-line (EOL) resistor between Terminals 1 and 4. Only one resistor is required, even if several D8130 Modules are paralleled. You can also connect a D192C Bell Supervision Module to the same zone or point input.

2.0 Specifications

Operating Power	12 VDC, nominal	
Wiring	Control Panel Wiring Connections Maximum Wire Resistance: 6 Ω	
	Maximum Distance	Wire Size
	350 ft	22 AWG
	800 ft	18 AWG
	100 m	0.6 mm
	270 m	1.0 mm
Current	Standby: 7 mA. Alarm: 60 mA maximum. Contacts Disabled: 15 mA	
Relay Output	Dry form "C" contacts: 10 mA to 5.0 A resistive load rating at 5 VDC to 30 VDC maximum	

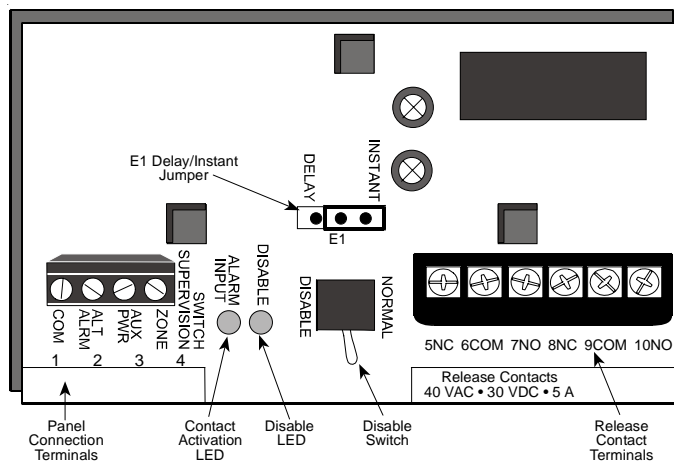


Figure 1: D8130 Door Release Module



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3.0 Installation

3.1 Mounting

You can mount the D8130 inside the control panel enclosure or in a separate electrical junction box. When mounting it in the enclosure such as the D8108A or D8109, use any of the 3-hole mounting locations. Secure the D8130 using the three supplied mounting screws. For additional mounting locations, you can use the D137 Mounting Bracket. Use a D138 to mount the D8130 in a D9101 Enclosure.

3.2 Wiring the D8130 to the Control Panel

1. Connect SWITCH SUPERVISION ZONE (Terminal 4) to one control panel protective zone or point.
2. Connect AUX PWR to the control panel's +Aux Power.
3. Connect ALT ALRM to a control panel's Alarm Power output or the NO relay. When using the NO Aux Relay (available on some control panels) to trigger the D8130, connect the common (COM) relay to Aux Power for a voltage trigger.
4. Connect COM to one of the control panel's common inputs.

3.3 Door Release Contact Outputs

Each D8130 release contact has NO, normally closed (NC), and COM terminals. The markings on the edge of the circuit board identify the terminal. In the contact inactive state, the NC terminal has continuity with the COM terminal. In the contact active state, the NO terminal has continuity with the COM terminal.

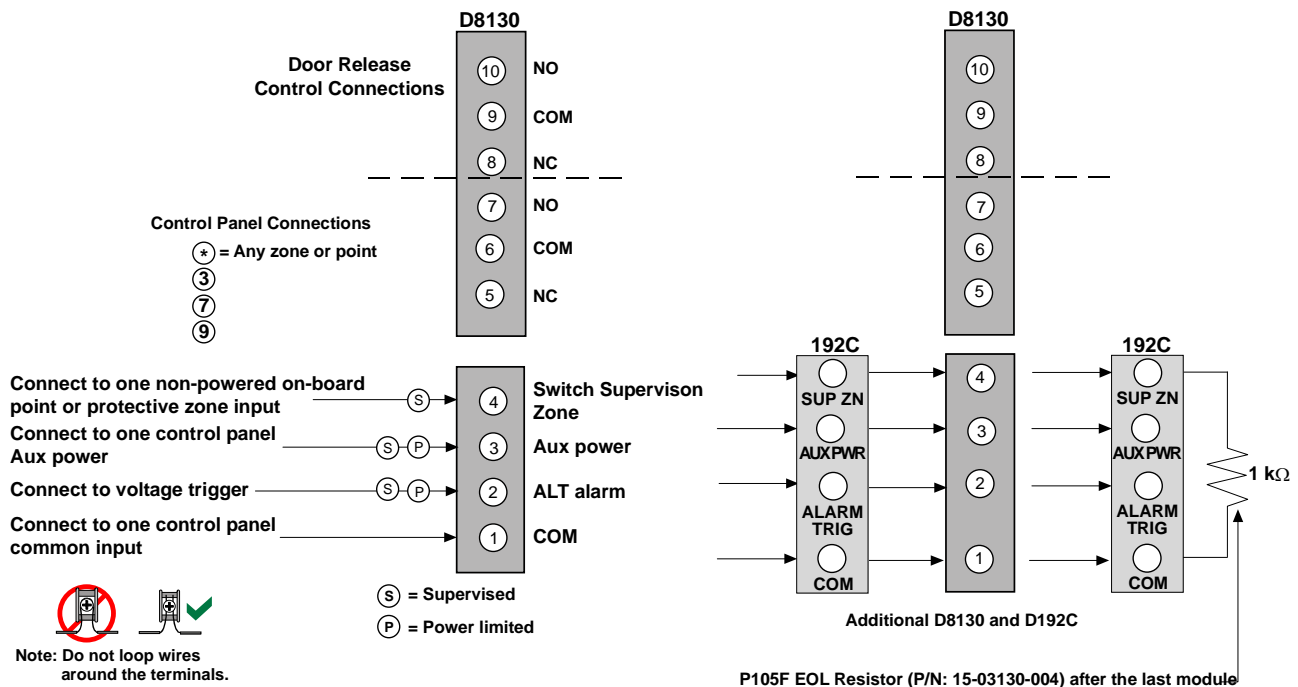


Figure 2: Wiring the D8130 Door Release Module



After any programming or hardware change, do a functional test of the system as required by local codes.



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

