DVP 271 Ground Fault Detection Module Installation Guide

Contents

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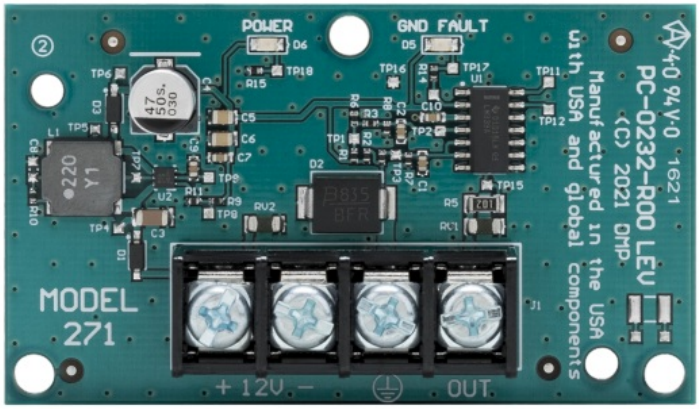


GET STARTED

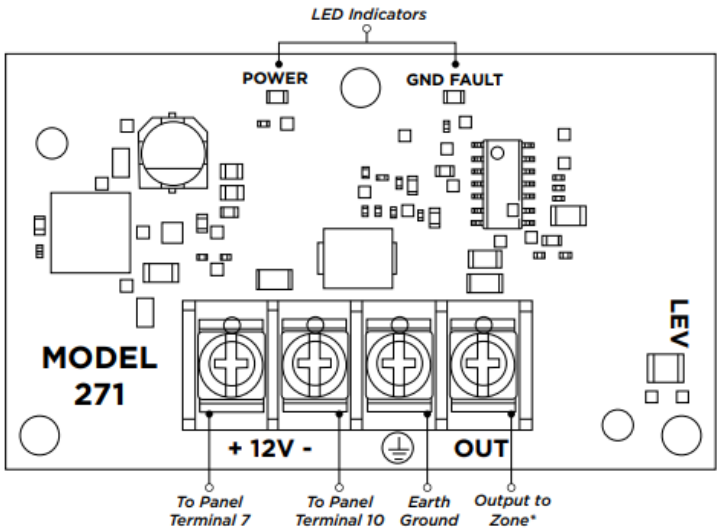
The 271 is a ground fault detection module that detects ground faults without harming the control panel. The module connects to a zone and the earth ground to determine if there is a fault. Refer to the panel installation guide for more information about zone programming.

What's Included

- One 271 Ground Fault Detection Module
- 3 Nylon Standoffs
- 2 Nylon Washers
- 2 Nylon Cup Washers
- 1 Ferrite Core

What You'll Need

- #2 Phillips screwdriver



*Connect to the positive terminal of any available zone between 1 and 8
Figure 1: PCB Features

INSTALLATION

Preparing for Installation

1. Unscrew the panel from the enclosure and remove the panel
2. Place the included nylon cup washer between the enclosure standoffs and the Place the flat nylon washer on the screw to secure the panel. This provides ground isolation from the enclosure.
3. Screw the panel PCB back into

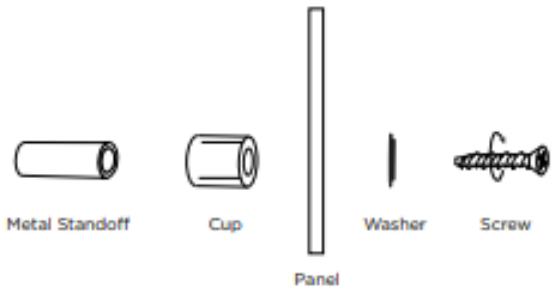


Figure 2: Washer and Panel Installation

Mount the Module

The module can be mounted in a DMP enclosure using the standard 3-hole mounting pattern. Refer to Figure 2 as needed during installation.

1. Hold the plastic standoffs against the inside of the enclosure side
2. Insert the included Phillips head screws from outside of the enclosure into the standoffs. Tighten the screws.
3. Carefully snap the module onto the

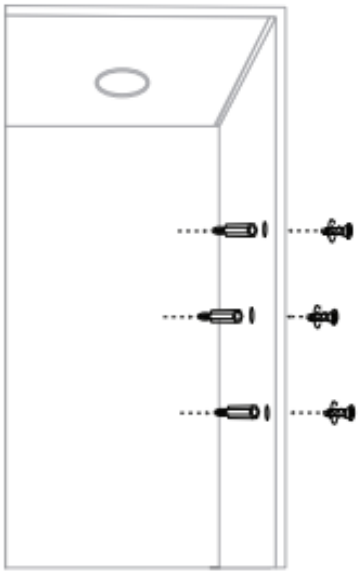


Figure 3: Standoff and Module Installation

Wire the Module

Caution: Disconnect all power from the panel before wiring the module. Failure to do so may result in equipment damage or injury. Observe polarity when making power connections.

Use 18 to 22 gauge wire when wiring the module.

1. Use a wire to connect the module's 12V negative to terminal 10 on the Use another wire to connect the module's 12V positive to terminal 7 on the panel.
2. Connect the module to the earth ground (if available) using 14 gauge wire or Additional options are a cold water pipe, ground rod, or building ground. Gas pipes or sprinkler pipes should not be used. Do not connect to an electrical ground, server rack or telephone company ground.
3. Connect the module's OUT to the positive terminal of any available zone between 1 and Do not attach a resistor to the zone, there is a resistor built into the 271.

Note: The module monitors all busses on the panel through the on-board zone connection.

Wire the Ferrite Core

Refer to Figure 4 as needed during installation.

1. Unplug the keypad harness from the panel keypad bus
2. Open the ferrite
3. Loop the keypad harness wires around the core and

Reconnect the keypad harness to the panel keypad bus header.

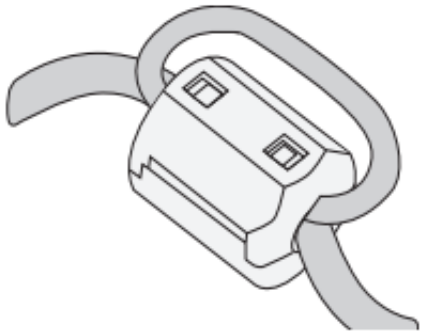


Figure 4: Ferrite Core Installation

Program the Panel

Refer to the panel programming guide for full programming information.
After completing each of the following steps, press **CMD** to advance to the next prompt.

1. Reset the At a keypad, enter **6653** (PROG) to access the PROGRAMMER menu.
2. In **STATUS LIST**, navigate to **SUPERVISORY ZONES** and select keypads to display the ground fault
3. At **ZONE INFORMATION**, enter the zone
4. At ***UNUSED***, name the zone **GROUND FAULT**.
5. At **ZONE TYPE**, select **SUPERVISORY** (SV).
6. Press **CMD** until **STOP** Press a top row select key or area to save programming.

ADDITIONAL INFORMATION

Module Operation

When a ground fault is detected, the panel will enter into a trouble condition and annunciate at the keypad programmed in the Status list. The trouble condition will continue until a valid user code is entered at the keypad. In addition, ground fault conditions on the zone will light the corresponding GND FAULT red LED.

Compatibility

- XR Series Panels

SPECIFICATIONS

Primary Power	12 VDC from panel
Current Draw	
Idle	8.8 mA
Operating	12.8 mA

CERTIFICATIONS

Underwriters Laboratory (UL) Listed

ANSI/UL 864	Fire Protective Signaling

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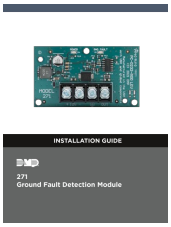	DVP 271 Ground Fault Detection Module [pdf] Installation Guide 271 Ground Fault Detection Module, 271, Ground Fault Detection Module, Fault Detection Module, Detection Module, Module

References

- DMP.com | Welcome to Digital Monitoring Products
- User Manual

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