

VSI

V-PLEX® SHORT ISOLATOR



Designed to work on all Honeywell V-Plex polling loops, the VPLEX-VSI provides short circuit isolation for devices on compatible control panels. When a short occurs on a polling loop branch, it illuminates a trouble LED and

isolates the defective branch from the system-enhancing life safety and protection while reducing troubleshooting time and maintenance costs.

FEATURES

- Detects and isolates polling loop branches with complete or resistive shorts, and overload or defective polling loop devices on initial power up
- Can be used to isolate burglary devices from fire devices, increasing life safety and protection
- LED indicator reduces troublesome time and maintenance costs
- Can be used on all qualified controls that support Honeywell's ADEMCO V-Plex two-wire polling loop
- Operates automatically on qualified controls without the need for changes to existing control hardware or software
- Powered directly from V-Plex twowire polling loop
- Can be placed on any major or minor branch in any configuration on the polling loop
- Low power consumption
- Designed to meet appropriate regulatory agency requirements

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SPECIFICATIONS

General Specifications

- **Operating Temperature:**
 - 20C to +60C
- **Operating Relative Humidity:**
 - 0-95% non condensing
- **Operating Voltage:**
 - 7-14VDC, for V-Plex System
- **Quiescent Current:**
 - 1.2mA (LED off), 5.0mA (LED on)
- **Loop Current:**
 - 2 amps, max.

- **Complete Short Detection:**
 - <10 ohms
- **Resistive Short Detection:**
 - (10-400) ohms during normal polling;
 - (10-800) ohms at application of polling loop power
- **Power-On Short Detection:**
 - ≤15 ohms
- **Overload Detection:**
 - Loop power level is, 6VDC
- **Dimensions:**
 - 4 1/8" L x 9 1/16" W x 7/8" D

Agency Listing:

- UL1610 - Commercial Burglary Alarm - central station alarm units
- UL864 - Commercial Fire Alarm
- UL985 - Residential Fire Alarm
- UL1023 - Household Burglary - alarm system units
- UL609 - Commercial Burglary - local alarm units
- UL365 - Commercial Burglary - police station alarm units
- CUL
- CSFM
- FM
- CE

For best detection and isolation of powered-on shorts, defective devices, or overloads, the maximum distance between a VPLEX-VSI and the polling loop devices located farthest for the VPLEX-VSI, should be kept within the following wired limits.

WIRE GAUGE		Cable Length, maximum (Shielded or Unshielded)	
#22	(0.64mm)	500 ft.	(152.40m)
#20	(0.81mm)	800 ft.	(243.84m)
#19	(0.91mm)	1,000 ft.	(304.80m)
#18	(1.02mm)	1,200 ft.	(365.76m)
#16	(1.29mm)	2,000 ft.	(609.60m)

NOTE: The VPLEX-VSI does not add to the maximum length of any branch or the maximum sum length of all branches as listed in your control panel manual. When a conflict occurs, the shorter length should be considered as the maximum.

ORDERING

VPLEX-VSI V-Plex Short Isolator

For more information: www.honeywell.com/security/hsc

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