

VF6020-00 & VF6021-00

with Short Circuit Isolator

Fast Response Contact Modules (Class A Wiring)



Back side of a VF6020



Back side of a VF6021



Standard Features

- Single input contact monitor
- Fast, reliable contact monitoring utilizing the DCP (Digital Communications Protocol)
- Two different mounting configurations
- 127 devices can be used per DCP loop
- Bi-colored indicating LED provides module status (Both Models)
- Yellow LED indicates a short circuit condition (VF6021-00 only)
- Can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts in Class B
- Operates on Class A or Class B SLC loop
- Accepts up to 14 AWG wire

Operation

The VES VF6020 and VF6021 Fast Response Contact Monitoring Modules are designed to be used with pull stations, water flow switches, and other applications requiring the monitoring of dry contact alarm initiating devices. The interrupt driven Digital Communications Protocol (DCP) combines maximum communication reliability and fast response to emergency conditions. Two different mounting configurations are provided to meet a wide range of applications. The VF6020 and VF6021 contact monitoring module does not require a separate 24 VDC power source.

Each addressable contact monitoring module is programmed with its own unique Signaling Line Circuit (SLC) loop address. The device address is electrically programmable and stored on onboard EEPROM. Up to 127 devices can be placed on the DCP SLC loop. The module supervises the wiring to the contact with an End Of Line (EOL) resistor in Class B mode. It can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts. If a fault condition occurs in the wiring, the module sends a trouble status signal to the fire alarm control panel. When a change of status (contact changes state) is sensed by the VF6020 and VF6021, it sends an interrupt to the Fire Alarm Control Panel indicating that an alarm has occurred. VF6021-00 version has built-in integrated SCI circuitry. In the event of a short on the S-SC line, the SCI circuit will activate and its yellow LED indicator will be turned on steady and the module will report the short circuit condition to the Fire Control Panel.

Technical Specifications

Supply Voltage Nominal: 25.3-39VDC
Average Current Consumption: 630µA (Typical), 6.3mA (Alarm)
SCI on Resistance: 40 ohm Mx. (normal condition)
SCI Fault Detection Threshold: 12 Volts (Typical)
SCI Isolation Current (short circuit condition): 10mA (Typical)
Maximum Quantity per Loop: 127
Dimensions: 4.2" W x 4.7" H x 1.4" D
Mounting: 4" square electrical box
Relative Humidity: 90% RH Non-Condensing
UL Ambient Installation Temperature Range: 32° F to 120° F