Fast Response Contact Monitoring Module

VF6002-00

Standard Features

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

Technical Specifications

Operating Voltage DCP Powered Loop	25.3 - 39 VDC
Average Current Consumption	630µA (Standby) 6.3mA (Alarm)
SCI on Resistance	40m Ohm Max (Normal Condition)
SCI Fault Detection Threshold	12V (Typical)
SCI Isolation Current (Short Circuit Condition)	10mA (Typical)
Maximum Quantity per Loop	127
Maximum Humidity	up to 90%, non-condensing
UL Ambient Installation Temperature Range	32°F - 120°F (0°C - 49°C)
Mounting	4" square electrical box
Dimensions	4.2"(W) x 4.7"(H) x 1.4"(D)

Application

The VES 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 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 on-board EEPROM. Up to 127 devices can be placed on the VES 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 contact module, it sends an interrupt to the Fire Alarm Control Panel indicating that an alarm has occurred. The VF6021 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.