Belden Environmental Sensors

Part # 9318-0504 - Remote Door Position Analog Sensor
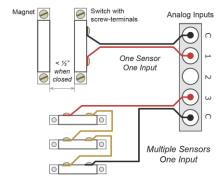
Belden Remote Door Position Analog Sensor:

This sensor offers a low-cost method to monitor access doors or cabinets door open or closed state. The non-contact magnetic switch mounts to the door of the cabinet or equipment room and connects to a Belden Environmental Monitor. Remotely check the door status through the web interface or use alarms to notify door state change.

- Used to detect whether a door is open or closed
- Connects to Belden Environmental Monitor via Analog Input of Analog to Digital Converter
- Receive alarms via email or SNMP

The sensor consists of two main parts, a magnet and a switch terminal to connect the signal wires. Default signal wire length is 30 ft.; 50ft and 100 ft. signal wire are available on demand. The magnet mounts to a door or access panel, while the switch mounts to the frame. When the door is closed the two pieces should be within ½" of each other. When the door opens this distance increase eventually toggling the switch allowing the Environmental Monitor to know door was opened.

9318-0504

Connection to Belden Environmental Monitors

There are two options for connecting the door sensor to the Belden Environmental Monitors (9318-0550, 9318-0560, 9318-0570). The sensor can connect directly into the monitor I/O ports. The sensor lead wires are to be inserted in the lower cavity of the I/O ports connector. In case where the monitor do not have analog input (9318-0500) or all analog input are occupied by other sensors, an analog to digital converter can be used to connect sensor to digital sensor ports.

Multiple door position sensors can be wired in series to a single sensor in put (per figure). This allows freeing up monitor inputs when there is no need to know what specific door was open, but that at least one door in a group was opened.

Alarms

Refer to the Belden Environmental Monitor "quick set up guide" or "user manual" for details of how to set up alarm using the web interface. With appropriate alarm thresholds the Monitor will send alarm via email or SNMP trap if a door is detected open.

Sensor Details

Specifications
Normally-closed dry-contact sensor
Holes for screw-mounting
Insulation may be required if mounting to metal doors
Cable type: 2-conductor
Cable length: 15' 50' or 100'
Warranty: 1 year

Compatibility
Works with all climate/power monitors with analog ports
Compatible with Analog to Digital Converter