

Sensor Controlled Relay

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The Sensor Controlled Relay allows the user Remote actuation of electrical devices over Internet. It provides 1 high-power SPDT 5V relay. It includes Metal Oxide Varistors (MOVs) and Snubber circuits to protect the open contact of the relays from the high voltage spikes or noise transients. It monitors the power load and accepts a control signal which is sent from the unit.

Applications:

- Power Switching
- On/Off Control
- Activate Alarms
- Process Control
- Energy Management Systems

Specifications & Features:

- Relay contacts rated at 15 A @ 220 VAC, 25VDC with Resistive Load 8 A @ 220 VAC, 25VDC with Inductive Load (P.F=0.4, L/R=7 mS)
- Contact Material AgCdO
- Max. Operating Voltage 380 VAC, 125 VDC
- Max. Switching Capacity 4,000 VA, 480W with Resistive Load 2,000 VA, 240W with Inductive Load (P.F=0.4)
- Min. Permissible Load 100 mA, 5 VDC
- Power Consumption 5V @ 200mA
- 15Amp Fuse 380 VAC, 125 VDC
- Communications cable - RJ-45 jack to sensor using UTP Cat 5 wire.
- Sensor type - open/closed contact switch
- Power source: powered by the unit. No additional power needed.
- The unit auto detects the presence of the Sensor Controlled Relay
- Full autosense including disconnect alarm

- Metal Oxide Varistors (MOVs) and snubber circuit protect the open contacts of the relays from high voltage spike.
- 4 LEDs indicate the status of the Relay, Power Supply, AC Line Voltage and AC Load Voltage.
- Dimensions 65(W) x 62(H) x 15(D) mm
- Operating Temperature -40°C to 85°C

Configuring the Sensor Controlled Relay

a) Plug the sensor into one of the RJ45 ports on the rear panel of the unit.

b) Now point your browser to the IP address of the unit (default, 192.168.0.100). Next you need to login as the administrator using your administrator password (default is “public”). You will then be taken to the summary page.

c) From the summary page you need to select the sensors tab. The layout of the next page will vary depending on your unit so please refer to your units manual.

d) You should now be able to setup the thresholds for your sensor. The low critical, low warnings, normal, high warnings, high critical values can be set from this page.

Now we will cover the settings that are specific to your sensor.

Status: The Status field shows the current status of the Sensor Controlled Relay. The possible values are No Status, Normal, Critical, and sensorError. When the relay board is offline, the relay status is No Status. When the relay is online and its Normal State field is ON, then the status is Normal. When the relay is online and its Normal State Field is OFF, then the status is Critical. If at any time, communications with the Sensor Controlled Relay are lost, the status is changed to sensorError.

Description of Status When Relay On: This field is the custom description, which will be displayed in the Relay Status field when the relay state is on. The same text is listed as one of the relay actions used to turn on the relay. Examples for this field are Open Door, Turn Pump On, Turn Light On, etc

Description of Status When Relay Off: This field is the custom description, which will be displayed in the Relay Status field when the relay state is off. The same text is listed as one of the relay actions used to turn off the relay. Examples for this field are Close Door, Turn Pump Off, Turn Light Off, etc.