

Bench Testing StoneL 33/34 Solid State Sensors

WARNING

DO NOT BENCH TEST STONEL SST SOLID STATE SENSORS WITHOUT A SERIES LOAD RESISTOR. THIS WILL RESULT IN PERMANENT DAMAGE TO THE SENSOR

StoneL's SST sensors are 2-wire AC/DC solid state inductive sensors. Operating voltage is 8-125vdc and 24-125vac. Sensors are not polarity sensitive. Current flow through the sensors must not be allowed to exceed 300mA continuous

StoneL solid state sensors cannot be tested with an ohmmeter, a current limited power source is required to test for sensor operation/setting of limit switches.

All StoneL SST sensors have indicating LEDs, the bottom/closed sensor has a red LED, the top/open sensor has a green LED.

Connect SST sensor as per drawing below with correctly size resistor based on voltage being applied (refer to table below). Sensor Commons and NO/NC's can be jumpered together to power both sensors for testing/setting. Adjust cam or trigger so that the LED lights at desired valve position. (sensor can also be triggered with a screwdriver tip).

Once sensor operation has been verified, unit can now be placed into service. The series load resistor, nor an external power source, is required for field operation. The power for the sensor is provided by the discrete input card of the control system.

Voltage	Resistor Value	Resistor Wattage
9 Volts	0.5 - 1.5K	0.25 watt
12 Volts	0.5 - 2.0K	0.25 watt
24 Volts	1.0 - 4.0K	0.5 watt
120 Volts	15 - 20K	1.0 watt

