

Bench Testing Stonel 35 Solid State Sensors

WARNING:

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

Stonel's SST sensors are 2-wire AC/DC solid state sensors. Operating voltage is: 8-250VDC and 20-250VAC Max. Sensors are not polarity sensitive. Current flow through the sensors must not be allowed to exceed 100mA Max. for normal operation.

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 schematic below with correct size resistor based on voltage being applied (refer to load 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.

Once sensor operation has been verified, unit can now be placed into service. Neither the series load resistor or an external power source is required for field operation. The power and series load for the sensor is provided by the discrete input card of the control system.

Voltage	Resistor Value	Resistor Wattage
9 Volts	0.5K - 1.5K	0.25 Watt
12 Volts	0.5K - 2.0K	0.25 Watt
24 Volts	1.0K - 4.0K	0.5 Watt
120 Volts	15K - 20K	1.0 Watt
250 Volts	30K - 40K	2.5 Watt

