

Lightobject Fire Detector Installation Guide

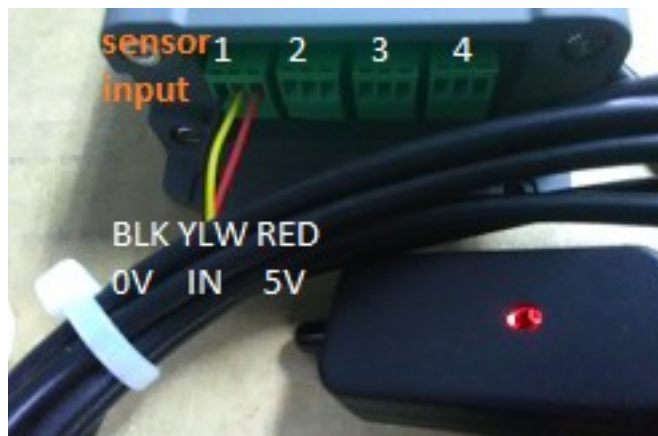
To use this fire detector, at least the 24V power and one sensor input need to be connected. When fires is detected by the sensor, the detector will beep and display “fire detected” on the screen. Press the up button to stop it.

Note: Please route the wires away from flammable area so they do not get burned when fire happens. Without power or sensor, the detector will not work.



The Relay input can be used for external wiring such as a beeper. It is a 2Amps relay inside, IN2(normally open) to COM becomes closed contact when alarm occurs. IN1 is normally closed. The Beacon output can be used for a beacon. COM will output 24V to C and D when alarm occurs. COM outputs 24V to A when there is no alarm.

Up to four sensors can be connected. Each sensor has a limited detection range, so using more than one at different location can increase the area of detection. When the fire is bright or close to the sensor, IN signal will drop close to 0V.



The sensor duration can be set in the detector setting. This can minimize false alarm. Press the set button to set the time desired. For example, if fire lasts for less than 2 seconds can be ignored, the time can be set to 3 seconds, so alarm only activates when fire lasts for more than 3 seconds. The last step is to test that everything is working. Prepare a wet mop or extinguisher to put off fire. Light up a fire and see the light intensity that triggers the alarm. Adjust sensor position if needed.

Sensor signal:

Sunlight will trigger the sensor. Please use the device indoor.

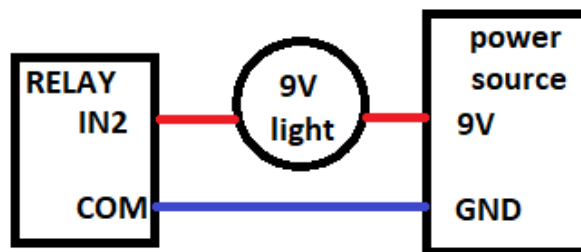
For cardboard/wood flame that is 5inches tall, the sensor can detect signal that is 3ft away straight.

Installation example in a Laser machine:

Many machines use the 24V power supply for laser controller. If it is only for powering the detector and sensor, we can use the same power supply. One risk is if the fire happens to cut off the power of this power supply, the detector will lose power. Please check the wiring and location to make sure it is safe.



Sample connection of using the detector's internal relay to control an external 9V light.



Mounting location of the sensor can be at the four corners of the work bed. Position the direction of the sensor towards the area that may catch on fire.

