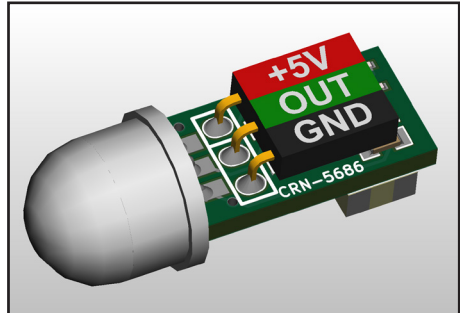


Subminiature motion sensor 5V with sensitivity adjustment **CRN-5686**



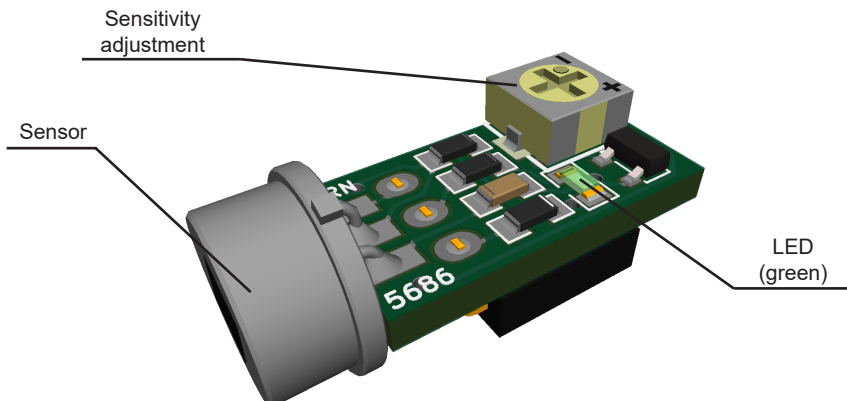
CRN-5686 is a subminiature motion sensor for 5V voltage for applications as a device that triggers controllers when motion of an object is detected. The sensor is cooperating with lighting controllers for stairs. The sensor detects objects emitting infrared (heat) radiation, such as people or animals. The sensor sends a fixed-length pulse (about 5 sec) after motion detection. The pulse has a negative level and can be connected directly to the controller input.

The sensor has a small, green LED diode that indicates the sensor's operation. The diode lights up for the pulse time. The diode can be used to mount and adjust the sensor.

The sensor's operating voltage is 5V and it can be connected to a special 5V power supply output located in each controller.

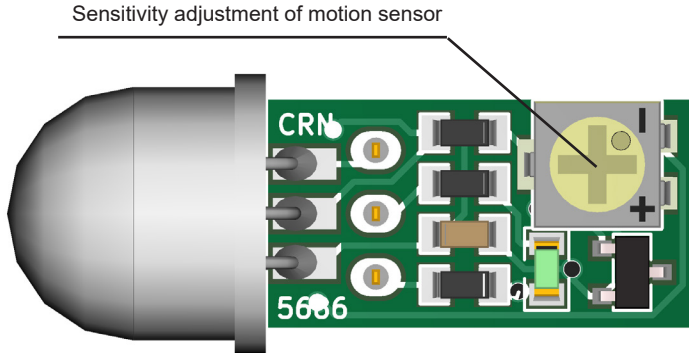
Sensor elements

The motion sensor has one control element: the sensitivity of the motion sensor. The sensor is delivered with the control element set in the initial position - for the motion sensor it is the maximum sensitivity. The position of the adjustment element should be changed carefully. In case of problems, please adjust the control element in the starting position.



Motion sensor

Turning the regulator (potentiometer) of the sensitivity of the motion sensor clockwise (to right) increases the sensitivity of the sensor, and in a counter-clockwise direction (to left) we decrease the sensitivity.



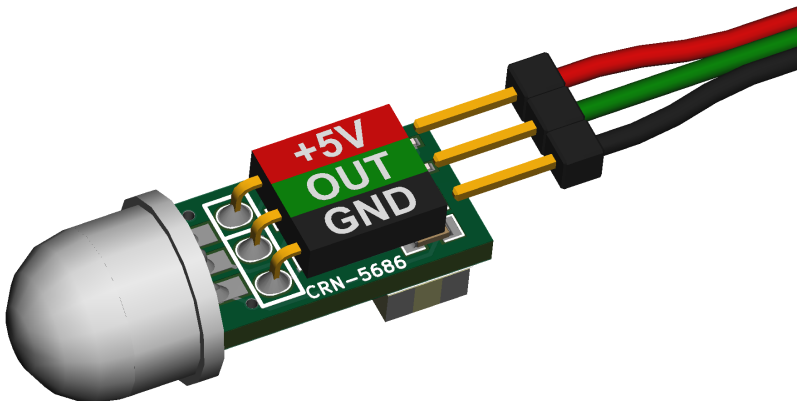
Sensor view from the sensitivity adjustment side

Connecting the sensor

The sensor has three ends. Make sure to connect the power supply and controller input with great attention. Misconnection of the power supply or controller input will damage both devices!

To the attached plug, solder wires from the controller: + 12V power supply, signal cable connected to the controller input and minus 12V supply (GND) to the attached connector. The connection should be made as described on the socket mounted on the sensor.

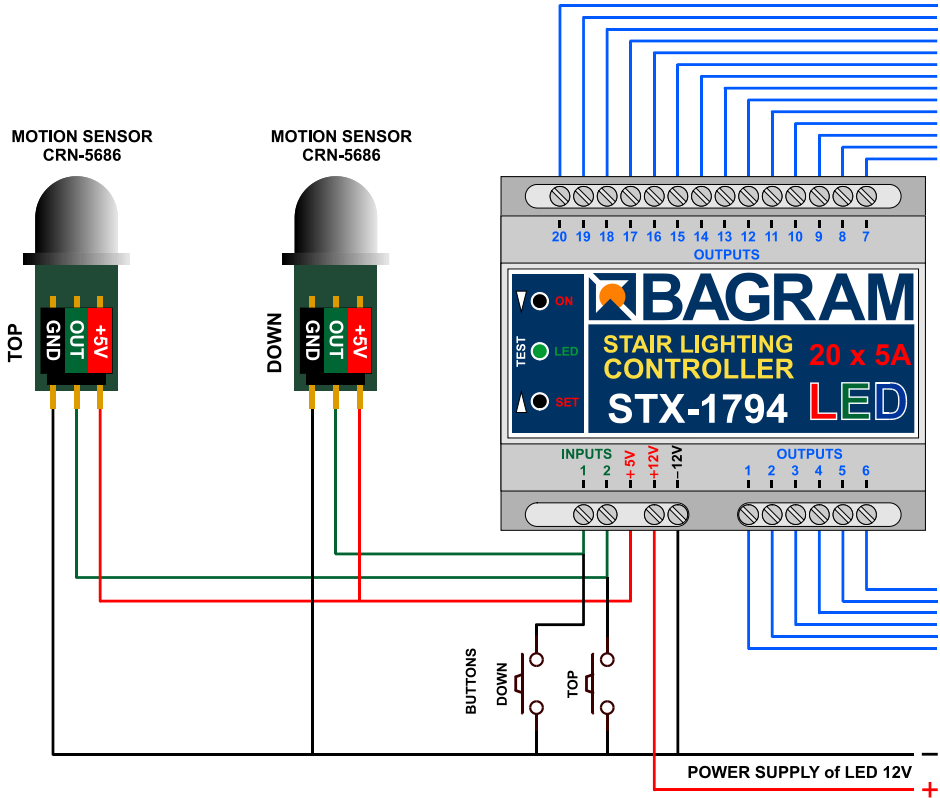
WARNING! Reverse connection of the plug will damage the sensor!



It is now necessary to mount the sensor in the correct position and, experimenting, set the sensitivity knob so that the sensor switches on the controller at the right moment when the person enters the stairs. The LED diode located on the sensor helps in this - it lights up when motion is detected.

It may be necessary to partially expose the sensor bowl so that it does not react to people passing by the stairs. It is best to remove the sensor's canopy and stick it partly from the inside with a white installation tape in such a way that the sensor does not react to people passing by the stairs or to shield it from other light that may interfere with its operation. You can also paint the sensor bowl from the inside with white lacquer.

Please remember about the so-called sensor dead time is about 2.5 seconds, i.e. time after sending a pulse, in which the sensor does not respond to the person.



Connection of CRN-5484 sensors to the controller - on the example of the STX-1794 controller

Dimensions of the motion sensor

