

We learned: The Touch LED uses technology that detects small changes in the physical properties of its surroundings. It does this by measuring capacitance. Capacitance is a physical property of any object.

The working of a touch led sensor is similar to that of a simple switch. When there is contact with the surface of of the touch sensor, the circuit is closed inside the sensor and there is a fow of current. When the contact is released, the circuit is opened and no current flows.

Similar to a switch. When they are subjected to touch, pressure or force they get activated and acts as a closed switch. ... A capacitance measuring circuit continuously measures the capacitance C_0 of the sensor. When this circuit detects a change in capacitance it generates a signal.



Touch LED Sensors

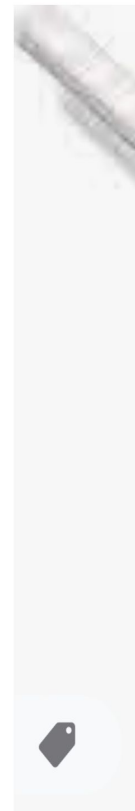


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Product

Battery Operated Touch LE...



Product

Amaz



Studies also reveal that LED lights emitted by LED lights can cause retinal and if there is high exposure for even a short period of time.

The Touch LED can detect this capacitance by sending an electrical signal and noting what comes back. In the image you can see that when the button is pressed, the purple response signal changes compared to the blue input signal.