

What is the T8 light sensor module



Summary of Content

A T8 light sensor module is an LED tube with an integrated motion or occupancy sensor that automatically adjusts lighting based on presence, enhancing energy efficiency and convenience.

What T8 Means

The term T8 refers to a standard fluorescent or LED tube that is 1 inch (8/8 inch) in diameter, with “T” standing for tubular and “8” indicating the diameter in eighths of an inch. T8 tubes are widely used in commercial, industrial, and institutional settings due to their efficiency, versatility, and compatibility with various fixtures .

Sensor Module Functionality

A T8 light sensor module integrates a sensor—commonly Passive Infrared (PIR) or microwave—into the LED tube itself, usually at one end. This sensor detects motion or occupancy within a typical range of up to 5 meters, depending on installation height and sensor type . When movement is detected, the LED tube automatically:

- Boosts to full brightness (e.g., up to 3100 lumens) within seconds .
- Dims to a lower level (commonly 20%) or switches off after a set period of inactivity, conserving energy . Some advanced models also combine ambient light sensing, so the tube only activates when natural light is insufficient, further optimizing energy use .

Energy Savings and Benefits

T8 sensor modules can significantly reduce energy consumption:

Article Content

5.8GHz Frequency-Hopping Radar Sensor Module for T8 LED

The 5.8 GHz Frequency-Hopping Radar Sensor Module, designed specifically for use with T8 LED bulbs and ceiling lights via a

LED Tube T8 with PIR Sensor-Moore Technology

The LED tube is equipped with an integrated microwave sensor with motion detection, allowing energy savings of up to 80%

T8 LED Tube Light 4ft with Microwave Radar Motion Sensor 18W

Built-in Radar / Motion sensor to detect your motion within 16-24 meter and 180° beam angle, 160lm/w. It is a great product for

T8 LED Tube Lights with Motion Sensors

Upgrade your lighting with Brite's T8 LED Tube Lights that are equipped with microwave sensors, high luminous efficacy, durable

Radar Sensor T8 LED Light Tube 9W 12W 18W 22W-Shenzhen More

It is a great product for energy savings in warehouses, workshops, offices or for any application that requires security lighting. When

Mesh Radar Sensor T8 Tube Light

Mesh Radar Sensor T8 Tube Light • 5.8GHz + 2.4GHZ RF • Customize settings via APP • APP Monitor lamps' working status and

OSRAM SubstiTUBE T8 EM MOTION SENSOR LED

The new SubstiTube T8 Motion Sensor serves as a quick, simple and safe replacement of fluorescent lamps without having to rewire

Everything You Need to Know About the T8 Motion Sensor

T8 motion sensor switches integrate microwave radar and photosensors for efficient lighting automation, enabling plug-and-play

MASTER LEDtube sensor_Brochure online kopie

The MASTER LEDtube T8 sensor is a fast 1-to-1 replacement for 1200 and 1500 mm T8 fluorescent tubes with EM

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

