

What material is the light tube of the light sensor module made of



Overview

A light pipe is a rod made of optical acrylic or polycarbonate that transmits light from a light source, typically an LED, at the circuit board to the panel of the device. Light pipes (also called light guides or light tubes) are components that carry light energy including UV, infrared, visual light, laser, and more in a controlled area and defined size from point A to point B with high efficiency. How Do Light Pipes Work?

A light pipe is placed very close to an LED. Light pipes, or light tubes, are tube-like optical structures made of plastic. It is based on a BH1750 light sensor that works in conjunction with an ESP32 microcontroller. The recorded values can be read out via a smartphone, allowing the module to be used. Photomultiplier tubes (photomultipliers or PMTs for short) are extremely sensitive detectors of light in the ultraviolet, visible, and near-infrared ranges of the electromagnetic spectrum. Compatible with Arduino UNO R4 WiFi or any Qwiic-enabled.



Article Content

Jan 11, 2026

Getting Started with Light Sensor Module (SN-LIGHT-MOD)

INTRODUCTION SN-LIGHT-MOD is a photosensitive resistor module, suitable to detect environmental light intensity

Jan 10, 2026

Light Sensor Basics: Types and Functionality

Explore the fundamentals of light sensors, their functionality in detecting light intensity, and different sensor types.

Jun 22, 2026

The Mysterious Laser Receiver Sensor Module!

This article introduces a laser receiver sensor module available on the web. The module,

Jul 05, 2026

Light Sensor Definition, Types and Applications

The light sensor can sense light and convert it into an electrical signal. It can measure light intensity, wavelength,

Oct 13, 2025

Light Pipe Design Guide

A light pipe is a rod made of optical acrylic or polycarbonate that transmits light from a light source, typically an LED, at the circuit

Feb 15, 2026

What is Light Sensor? A Complete Beginner's Guide

How Light Sensor Works? Figure 2. Light Sensor Working Principle Light sensors work by detecting light from a

Oct 29, 2025

Light tube

Manufacturing custom designed infrared light pipes, hollow waveguides and homogenizers is non-trivial. This is because these are

Oct 23, 2025

Ambient light sensor

An ambient light sensor is a component in smartphones, notebooks, other mobile devices, automotive displays and LCD TVs. It is a

Apr 21, 2026

TSL2561 - light sensor module

The TSL2561 converts the light intensity via two photo diodes and downstream analog-digital converters into digital 16

Nov 20, 2025

Light Sensor | Analog Devices

How do light sensors work? Light sensors work by the photoelectric effect. Light can behave as a particle, referred to as a photon.

Jun 28, 2026

Light Sensing Sensor: Discrete vs IC, Types & Uses

Light sensing sensor explained: discrete (LDR/photodiode) vs sensor IC; types, uses, 7-brand IC picks, 48-h BOM

Dec 21, 2025

How to Use Light Sensor: Examples, Pinouts, and Specs

The Light Sensor module is an electronic component designed to detect the presence and intensity of light

May 23, 2026

LDR sensor module | How LDR Sensor Works

LDR sensor module is a low-cost digital sensor as well as analog sensor module, which is capable to measure and

Mar 12, 2026

Light Pipe Design: Considerations, Types, and Applications

Light pipes, or light tubes, are tube-like optical structures made of plastic. These pipes transmit light from a board-mounted LED or

Apr 18, 2026

Light Sensor using LDR, Photodiode and Phototransistor

Basic tutorial about Light sensors; Light dependent resistor voltage network; Photodiode and phototransistor principle

May 29, 2026

2026 Poll Of Exit Polls Highlights: BJP Has Edge In

Poll of Exit Poll Results 2026: Once voting concludes, the focus will quickly shift to exit poll predictions for

May 09, 2026

Image sensor

An image sensor or imager is a sensor used for imaging. It detects and conveys information used to form

Mar 17, 2026

What Is a Light Sensor? Types, Uses & Arduino Guide

Learn what a light sensor is, how it works, common types like LDR, and how to interface a light sensor with

Aug 08, 2025

Buy LM393 Photosensitive LDR sensor module | Electronic Spices

LM393 Photosensitive light-dependent resistor LDR sensor module A flexible component for light-detecting packages is the

Feb 22, 2026

Photosensor Modules Selection Guide: Types, Features, Applications ...

Photosensor modules are compact light detectors with built-in power supplies. They use photomultiplier tubes, avalanche

Jan 18, 2026

Photomultiplier tube

Photomultipliers are typically constructed with an evacuated glass housing (using an extremely tight and durable glass-to-metal seal

Mar 21, 2026

Light Sensor: Fundamentals, Technologies, and Applications

A light sensor (or photodetector) is an electronic device that measures light intensity and responds to it. Light sensors

May 26, 2026

Applications Light Sensor, Fundamentals, Technologies, and

In today's digitally connected world, light sensors play a vital role in bridging the gap between the physical and electronic worlds.

Oct 07, 2025

How Does a Light Sensor Work | 7 Easy Steps (2026)

Understanding the working principles of light sensors can provide insight into their applications and how they improve

May 23, 2026

Modulino Light | Arduino Documentation

This module provides high-precision colour detection with separate red, green, and blue channels, plus ambient light and infrared

Jul 22, 2026

Light sensor

The light sensor module uses a light-sensitive sensor to precisely measure and evaluate the intensity of incident light. It is based on

Oct 10, 2025

ams OSRAM is a global leader in innovative light and sensor solutions ...

We inspire with innovative light and sensor solutions, leveraging our passion, unique technologies, and extensive experience to

Apr 16, 2026

What is Light Sensor : 5 Advantages and Disadvantages

A light sensor detects the intensity or presence of light and converts it into electrical signals for monitoring and control applications. It

Sep 30, 2025

Tubelight Manufacturing: How They Are Made?

The gas-filled tube of a tube light is usually made of either quartz or phosphorus. This material helps to convert

Dec 31, 2025

Light Sensor Module

This Light sensor module based on photodetector GL5528 to detect the light intensity of the environment. As the resistance of the

Jun 18, 2026

Light sensors | TI

The LIGHTSOURCE01EVM is a stable uniform light source used for the calibration of ambient light sensors (ALS) and color sensors.

Jun 03, 2026

What is a Light Sensor? Types, Uses, Arduino Guide

The most common light sensor type used in a light sensor circuit are photoresistors, also

Contact Us

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

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

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

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

