

# LM-1ZBS Ambient Light Sensor

## Intelligent Lighting Control, Increased Energy Efficiency



- Measures and reports variations in light intensity
- Controls the on/off status of lights and appliances based on ambient light levels
- Spectral response mimics the human eye's perception of light
- IPX4 water resistance rating
- Compatible with other manufacturers' ZigBee products

The LM-1ZBS is a ZigBee ambient light sensor that measures and reports variations in light intensity regularly. The device enables home automation and security systems to dim or switch on/off electric lighting in response to changing daylight availability so as to adjust brightness to an optimum level and reduce energy consumption. It can also be deployed in home automation and security networks to control the on/off status of devices and appliances based on ambient light levels.

The LM-1ZBS features a spectral response mimicking the human eye's perception of ambient light and incorporates IR and UV blocking capabilities. The sensor is an essential component of daylight harvesting solutions as it can effectively balance natural and artificial lighting in buildings according to daytime or evening conditions.

The LM-1ZBS, which adopts a high-power ZigBee module, includes an LED that indicates the device's learning status and ZigBee network connectivity. Compatible with any ZigBee products supporting the ZigBee Pro HA 1.2 profile, the LM-1ZBS can be flexibly integrated into new or existing ZigBee systems. This easy-to-install sensor is water resistant to IPX4 standard.

### Features

- Measures and reports variations in light intensity regularly
- Enables home automation and security systems to turn on/off lights and appliances according to ambient light levels
- Spectral response mimics the human eye's perception of ambient light
- Incorporates IR and UV blocking capabilities
- Adopts a high-power ZigBee module
- LED indicates learning status and ZigBee network connectivity
- Regular supervisory signals ensure the device's proper operation
- Low power consumption
- Low battery detection
- IPX4 water resistance rating
- Easy installation
- Compatible with other manufacturers' ZigBee products
- CE compliance

### Specifications

Battery type	CR123A 3V lithium battery x 1
Battery life	2 years
Communications protocol	ZigBee Pro HA 1.2
Frequency	2.4 GHz band
Receiver sensitivity	-101 dBm
Operating temperature	-10°C to +45°C
Operating humidity	Up to 85% non-condensing
Dimensions	73.93mm x 45.8mm x 22mm

\*Battery life varies by use and configuration.