Ambient Light Sensor(0-200klx)

INTRODUCTION

This new ambient light sensor is packaged in a transparent semisphere case that offers better light-gathering power. The sensor supports a 0-200klx detection range and I2C communication. The on-chip photodiode's spectral response is optimized to mimic the human eye's perception of ambient light and incorporates IR and UV blocking capability. The adaptive gain block automatically selects the correct lux range to optimize the counts/lux. It is ideal for applications such as smartphones, vehicle smart light, intelligent incubator, etc.

SPECIFICATION

Supply Voltage: 2.7-6V
Operating Current: 7mA
Detection Range: 0-200klx
Accuracy: 0.054lx
Communication: I2C
Operating Temperature Range: -40°C~+85°C
Dimension: inner diameter 22mm, outer diameter 26mm, shell diameter 28.5mm, semisphere height 18mm

Luminance data reference

Evening: 0.001-0.02lx;
Moonlit night: 0.02-0.3lx;
Cloudy indoor: 5-50lx;
Cloudy outdoor: 50-500lx;
Sunny indoor: 100-1000lx;
Under summer noon light: about 10*6 lx;
Illumination when reading books: 50-60lx;
Home video standard illumination: 1400lx

SHIPPING LIST
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