

SPS200

Light Sensor

Specification V4.0



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1 Update Records

Document version	Hardware version	Release time	Update record
V4.0	-	August 7(nd), 2025	First release of document

2 Product Introduction

SPS200 is a light sensor device developed by Mooncell, designed for use with main control units such as the MTB400E, MTB600E, and MTB2000E. The SPS200 detects and responds to changes in ambient light levels. When integrated with an LED display control system, it enables automatic brightness adjustment of the LED display based on real-time environmental conditions. The SPS200 is widely applicable to outdoor advertising screens, vehicle-mounted displays, and large-scale fixed LED installations, including scenarios such as shopping malls and outdoor advertising projects.



* Product photos are for reference only, please refer to the products actually purchased.

3 Product Features

- Monitors ambient light brightness levels.
- Connects to the multi-function card MFN02.
- Includes a standard 5-meter cable.
- No external power supply required.

4 Technical Parameters

4.1 Parameter List

List	
Operating temperature range	-30~75°C
Ambient brightness detection range	0~65535 lux
Sensitivity	Sample once every 300 milliseconds
Standard cable length	5000mm

4.2 Dimensions

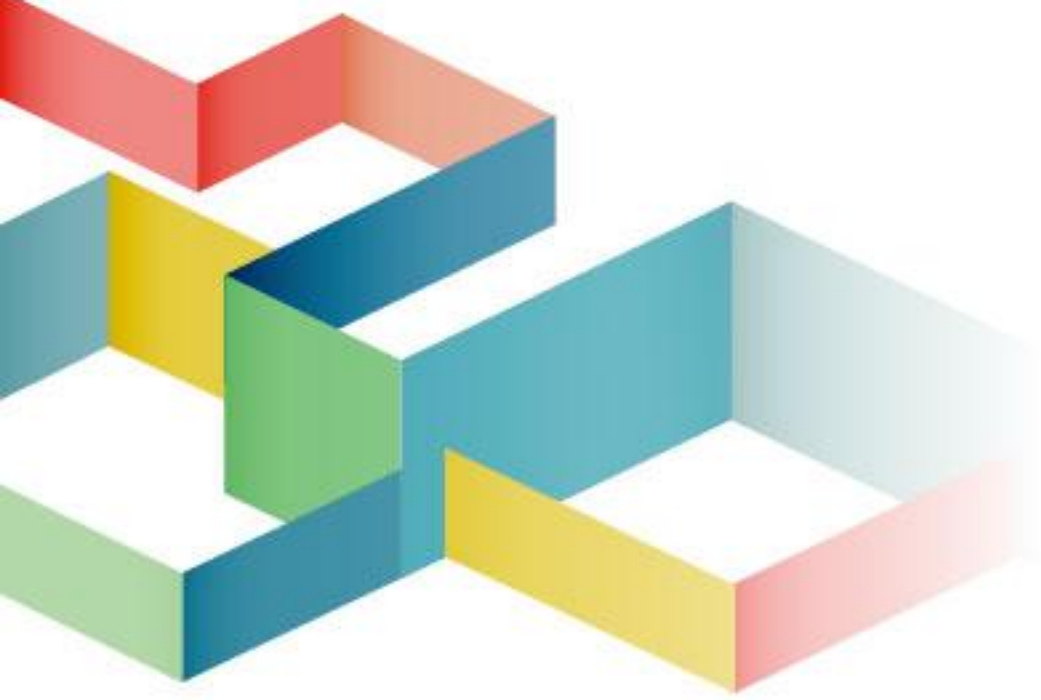


5 Specification

Model	SPS200
Rated Voltage	5.0V
Measured Brightness Range	0-65535 lux
Operating Ambient Temperature	-30°C-75°C
Operating Ambient Humidity	0%RH-99%RH
Cable Length	5M
Net Weight	375g

6 Precautions

- Installation must be performed by qualified professionals.
- Static electricity must be prevented.
- Ensure protection against water and dust.



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