

SPS100

Light Sensor

Specification V4.0



CONTENT

1 Update Records	1
2 Product Introduction	1
3 Product Features	2
4 Technical Parameters	2
4.1 Parameter List	2
4.2 Dimensions	2
5 Specification	3
6 Precautions	3

1 Update Records

Document version	Hardware version	Release time	Update record
V4.0	-	August 6(nd), 2025	First release of document

2 Product Introduction

SPS100 is a light sensor probe developed by Mooncell, designed for use with the M-MFN02 multi-function card. The SPS100 detects and responds to changes in ambient light levels. When connected to an LED display control system, it enables automatic brightness adjustment of the LED display based on surrounding environmental conditions. The SPS100 is widely suitable for outdoor advertising screens, mobile vehicle-mounted displays, and large-scale fixed LED installations. Typical applications include shopping malls, outdoor advertising projects, and similar scenarios.

◦



* 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 1.5-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	1500mm

4.2 Dimensions

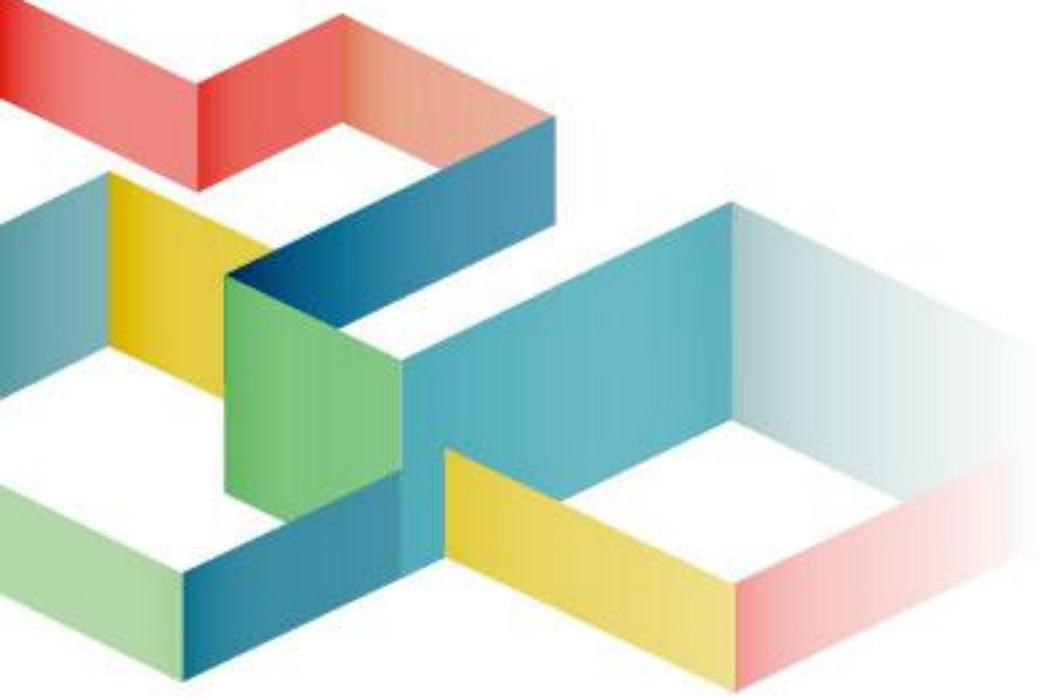


5 Specification

Model	SPS100
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	1.5M
Net Weight	225.9g

6 Precautions

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



National after-sales services hotline: 400-881-3531

Official website: www.mooncell.com.cn

Address: Mooncell Building, Third Industrial Zone, Baoshi South Road,
Shiyan Street, Baoan District, Shenzhen

