

NS060

Light Sensor



Specifications

Change History

Document Version	Release Date	Description
V1.1.6	2026-05-29	Updated the certification information.
V1.1.5	2026-02-02	Updated the certification information.
V1.1.4	2025-04-30	Updated the cable length information.
V1.1.3	2025-03-25	Added the information for current and power consumption.
V1.1.2	2022-03-11	• Added the certification related description. • Added IP rating information.
V1.1.1	2021-02-06	Added the certification information.
V1.1.0	2020-05-22	Updated the cable length description.

Introduction

The NS060 is a light sensor that can be connected to sending cards, asynchronous cards or multifunction cards for ambient brightness monitoring, allowing for automatic brightness adjustment of LED display.

The sensor body of NS060 is made of aluminum alloy. The sensor surface adopts micro-arc oxidation process, and therefore it is highly UV-resistant and will not be discolored. The joint between the sensor body and the male connector has a very deep groove and is extremely waterproof.

Certifications

CE, EMC, RoHS, EAC

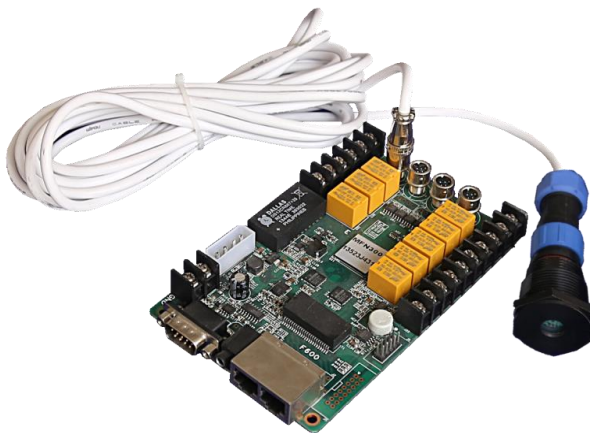
If the product lacks the certifications required for sale in the destination country or region, please contact NovaStar promptly for confirmation or assistance. Otherwise, the customer shall bear any resulting legal risks and liabilities, and NovaStar reserves the right to seek compensation.

Features

- Ambient brightness monitoring, allowing for automatic brightness adjustment of LED display
- Capable of connecting to sending cards (MSD300, MSD600, MCTRL300, etc.), asynchronous cards or multifunction cards
- Standard 5-meter cable included, with options for 10, 30, or 100 meters
- Mildew, moisture and salt-mist resistant design, ideal for outdoor applications
- No external power supply required

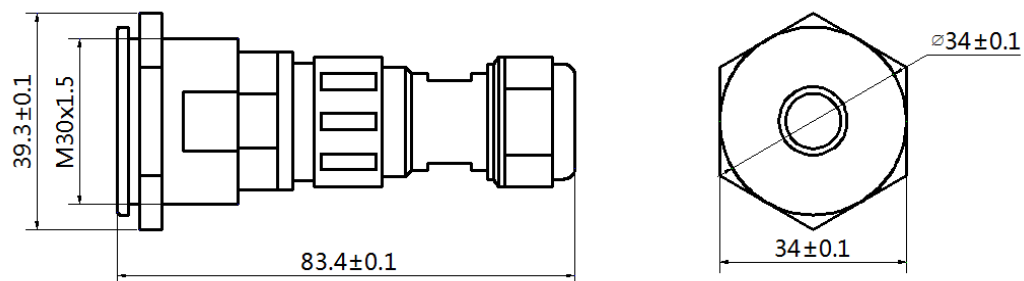
Applications

The NS060 light sensor can work with devices that have light sensor connectors, such as sending cards, asynchronous cards and multifunction cards. It must be placed in the same environment as the LED display. The connection between the light sensor and multifunction card is shown in the figure below.



Product images are for reference only. The actual product may vary.

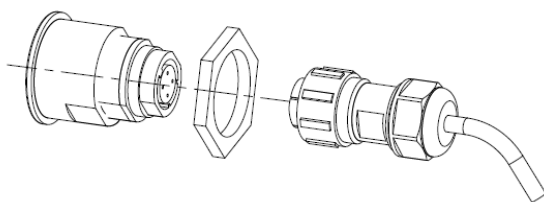
Dimensions



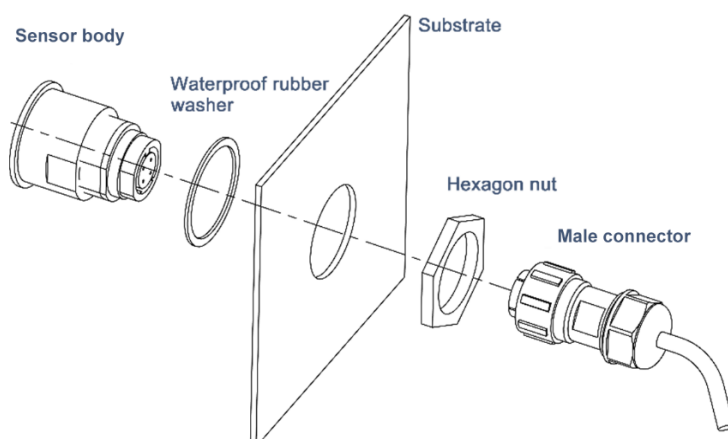
Unit: mm

Assembly diagram

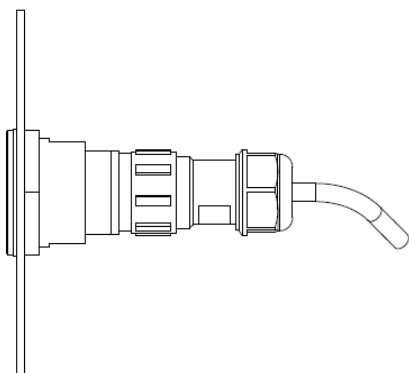
Preparation



Assembly



Complete



Tips: It is recommended that you apply outdoor waterproof adhesive to the joint between the sensor body and substrate after assembly, and check the joint regularly.

Specifications

Rated voltage	5 V DC
Maximum current	0.09 A
Maximum power consumption	0.45 W
Operating temperature	-20°C to +70°C
Operating humidity	0% RH to 99% RH, non-condensing
Brightness measurement range	0 lux to 65535 lux
Cable length	5 m (NS060-5A model), 10 m (NS060-10A model) 30 m (NS060-30A model) 100 m (NS060-100A model)
IP Rating	IP65

Note

The maximum current and power consumption were tested for a single light sensor under conditions of 5 V input voltage at an ambient temperature of 25°C.

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