

SPS10

Light Sensor

Specification V4.0



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1 Update Records

Document Version	Hardware Version	Release Time	Update Record
V4.0	SPS10 (V1.1)	June 17(th), 2025	First Release

2 Product Introduction

SPS100 is the light sensor that produced by Mooncell to be used together with Mooncell LED control system. The brightness can be automatically adjusted according to the ambient brightness.



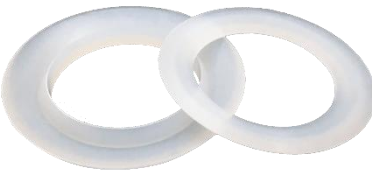
* Product photos are for reference only, please refer to the products actually purchased.

3 Technical Parameters

3.1 Specification

Parameter Sheet	
Working environment temperature	-25~85℃
Environmental brightness collection range	0~32767 lux
Sensitivity	Samples once every 300 ms
Standard cable length	2000mm

3.2 Light sensor

Light Sensor Main Part	Silicone gasket	Hexagon screw
		

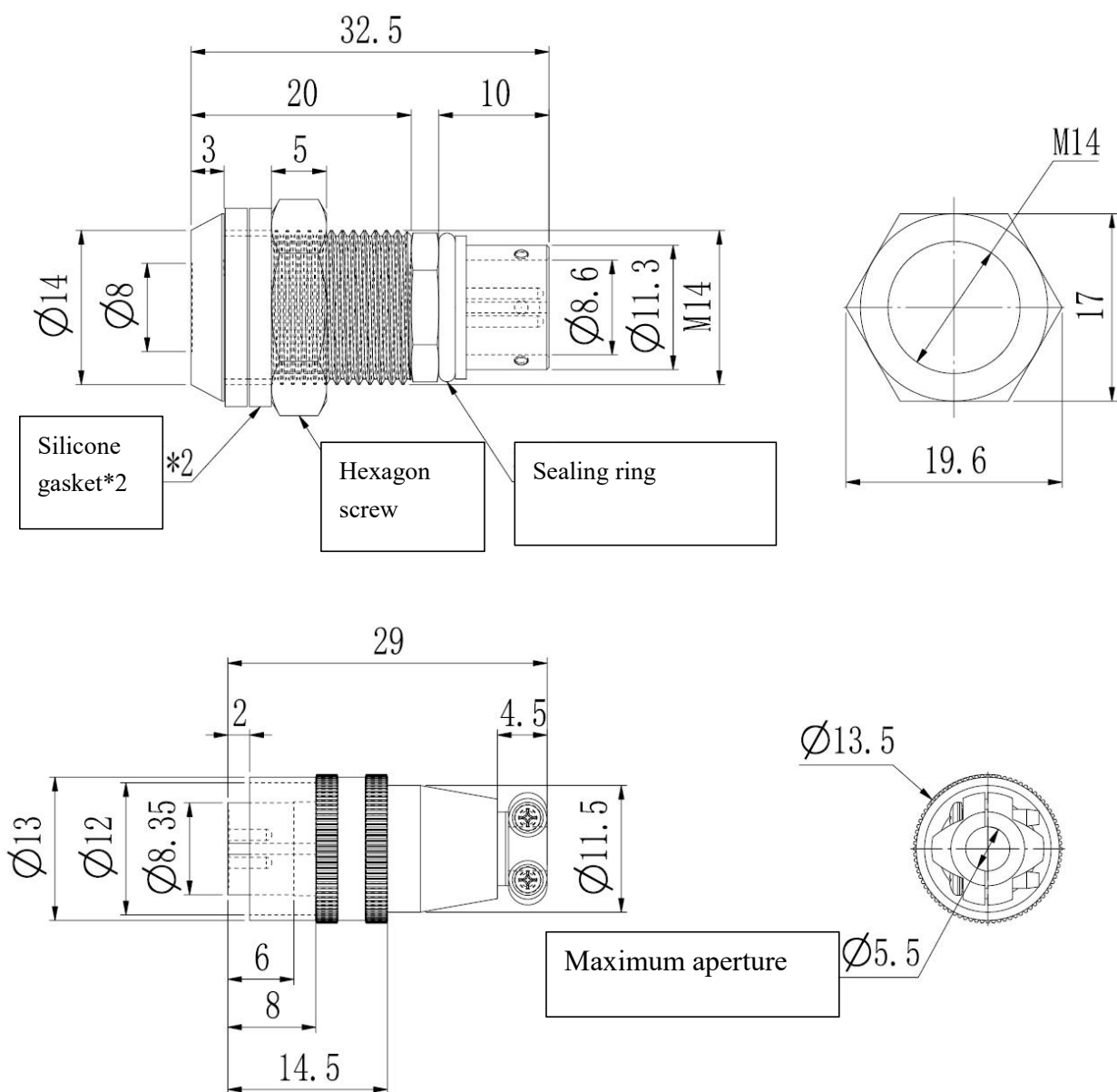
3.3 SPS10 Connection Cable



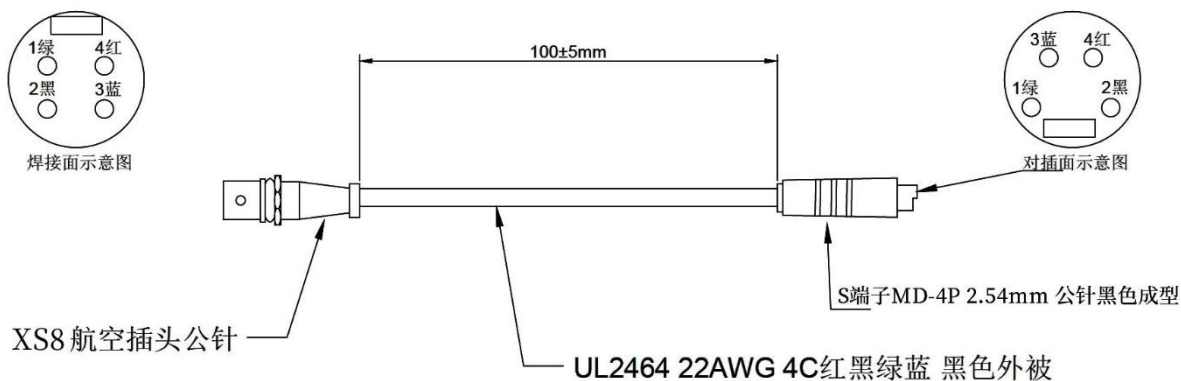
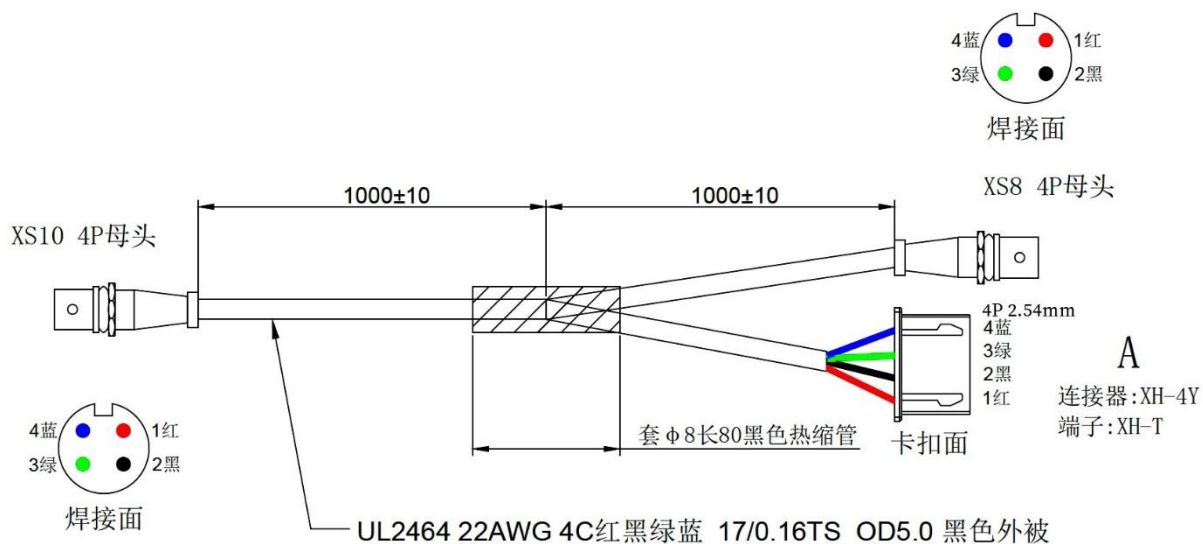
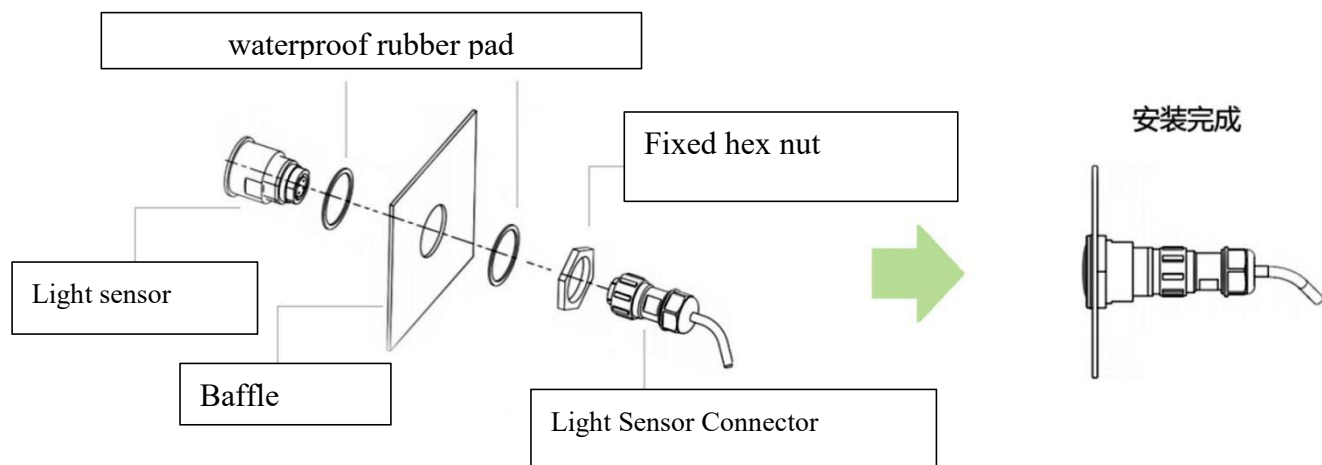
Adapter cable



*Applicable to all mooncell products with light-sensitive probe interfaces



5 Installation Diagram

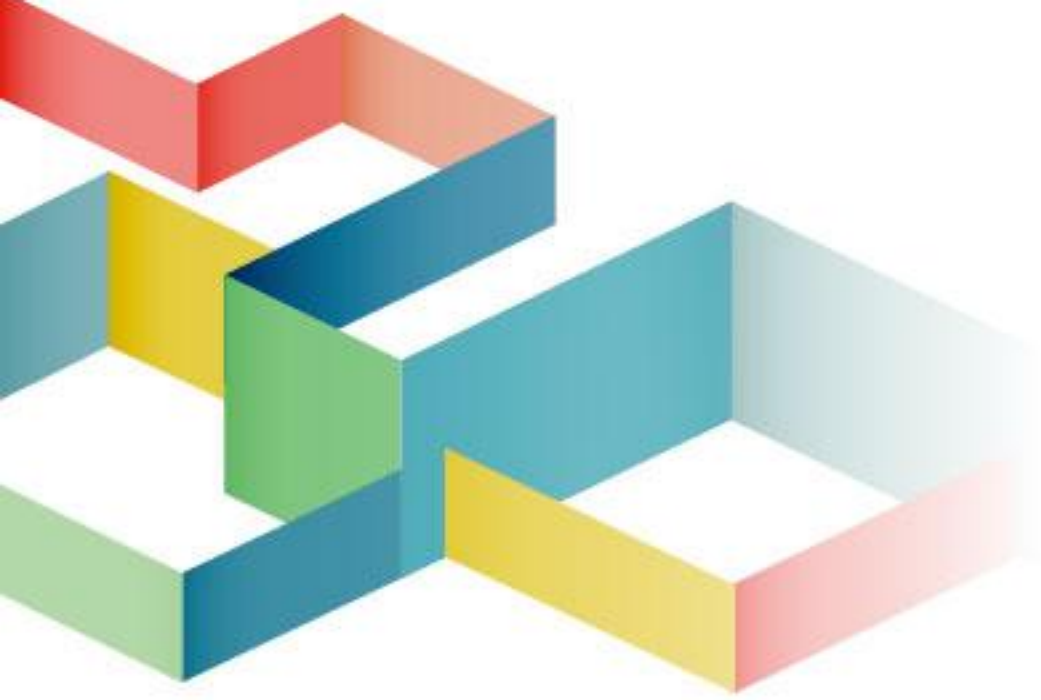


Installation Step:

1. Remove the gasket, nut, and connecting cable from the SPS10;
2. Install the waterproof gasket beforehand, then insert the light sensor probe into the pre-drilled mounting holes in the housing, and securely tighten the gasket nuts in sequence;
3. Install the connection cable: Connect one end of the wiring harness with the XS10-4 female connector to the XS10-4 male connector on the SPS10 (Note: The interface has a anti-misinsertion design; please align and insert correctly);
4. Connect the other end of the connection cable to the SENSOR on the playback box or control card.

6 Specification

Outer shell	Material	Aluminum shell
	Length	20mm
	Thread diameter	Outer: 14 mm Inner: 8.6 mm 13 mm at the lens, maximum diameter 17 mm With hex nut: 17 mm × 5 mm
		Outer diameter 18 mm, inner diameter 14 mm, thickness 2 mm
Silicone gasket	Diameter 13mm, inner layer with 3 layers of adhesive, black silk screen printing (diameter 8.6mm), outer diameter 13mm	
Acrylic plate	Black 4-pin insulated sheath, length 2000mm, A-end with S10-4 core aviation connector, B-end split into two, B1-end connected to XS8-4 core aviation connector, B2-end connected to XH2.54-4P terminal.	
SPS10 adapter cable	A-end 4-pin aviation plug with rear cover, cable length 100mm, UL2464 22AWG4C red, black, green, blue, black outer sheath, B-end S terminal MD-4P molded black.	



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

Official website: www.mooncell.com.cn.

Address: Mooncell Building, No.3 Industrial Zone, Baoshi South Road,
Shiyan Street, Baoan District, Shenzhen

