

SM2160M

4-20mA current interface protection type small range illuminance sensor

User Manual

File Version: V21.12.16

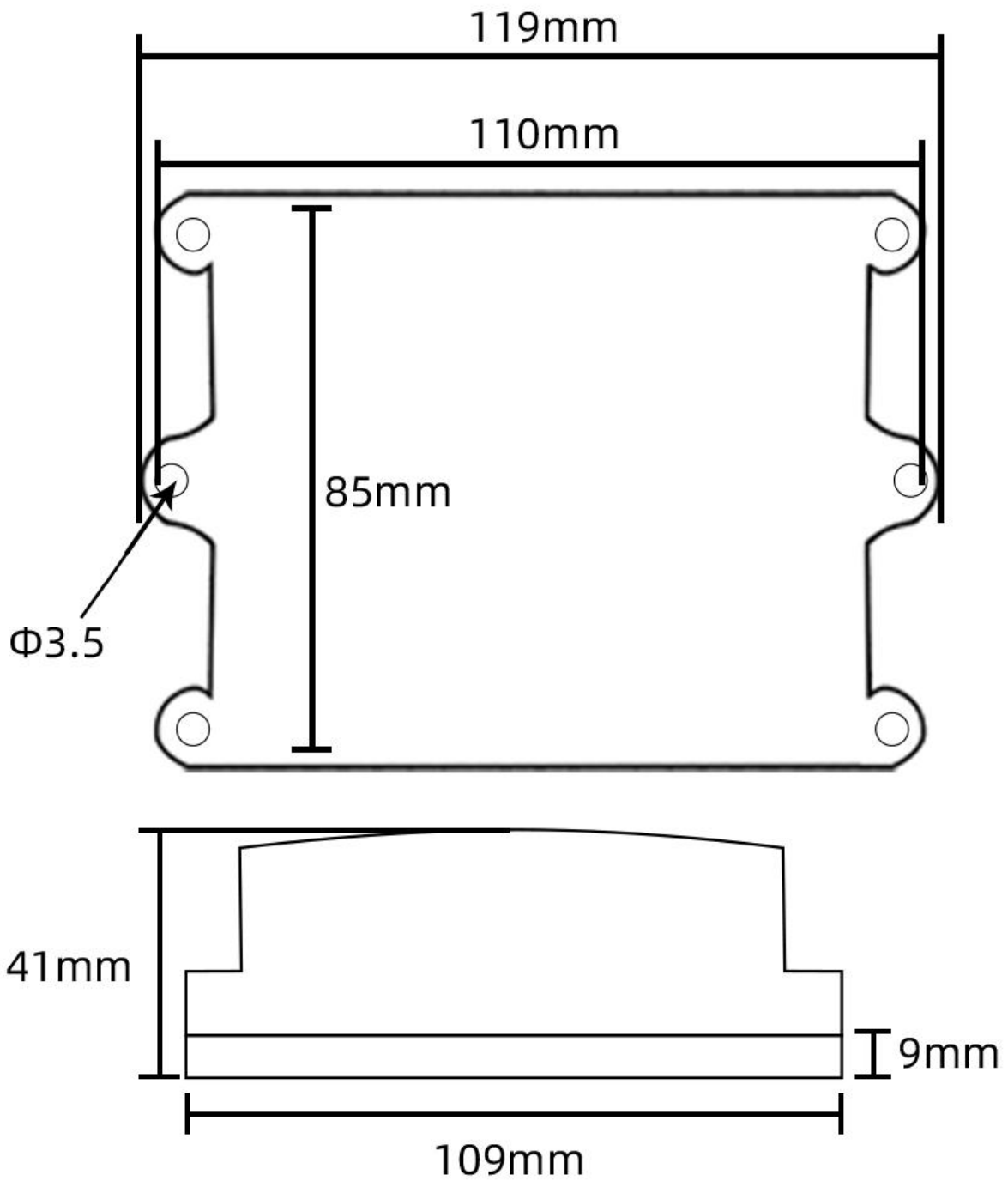


SM2160M using the standard DC4-20mA current output signal, easy access to PLC, DCS and other instruments or systems for monitoring illuminance state quantities. The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability, can be customized RS232, RS485, CAN, 4-20mA, DC0~5V/10V, ZIGBEE, Lora, WIFI, GPRS and other output methods.

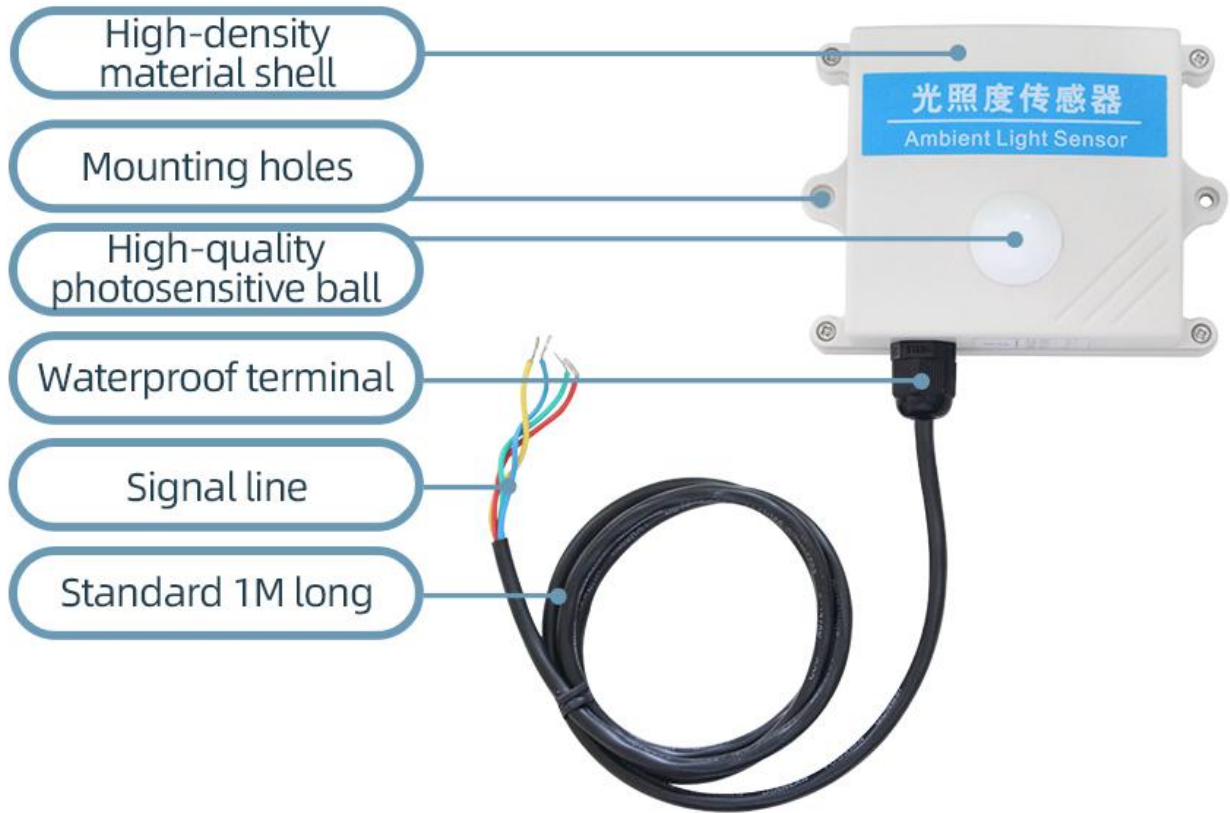
Technical Parameters

Technical parameter	Parameter value
Brand	SONBEST
Illuminance measuring range	0~65535Lux
Illuminance allow deviation	± 7%
Repeatability test	± 5%
Illuminance detection chip	Import digital
Wavelength range	380nm~730nm
Communication Interface	DC4~20mA
Power	DC12~24V 1A
Running temperature	-40~80°C
Working humidity	5%RH~90%RH





Product Size





How to wiring?






RS485 Wiring

	RD	PWR+
	GN	PWR-
	YE	RS485 A+
	BU	RS485 B-




mA Two-wire wiring

	RD	Ammeter-
	BK	PWR-

mA Three-wire wiring

	RD	PWR+
	BK	PWR-
	BU	I OUT

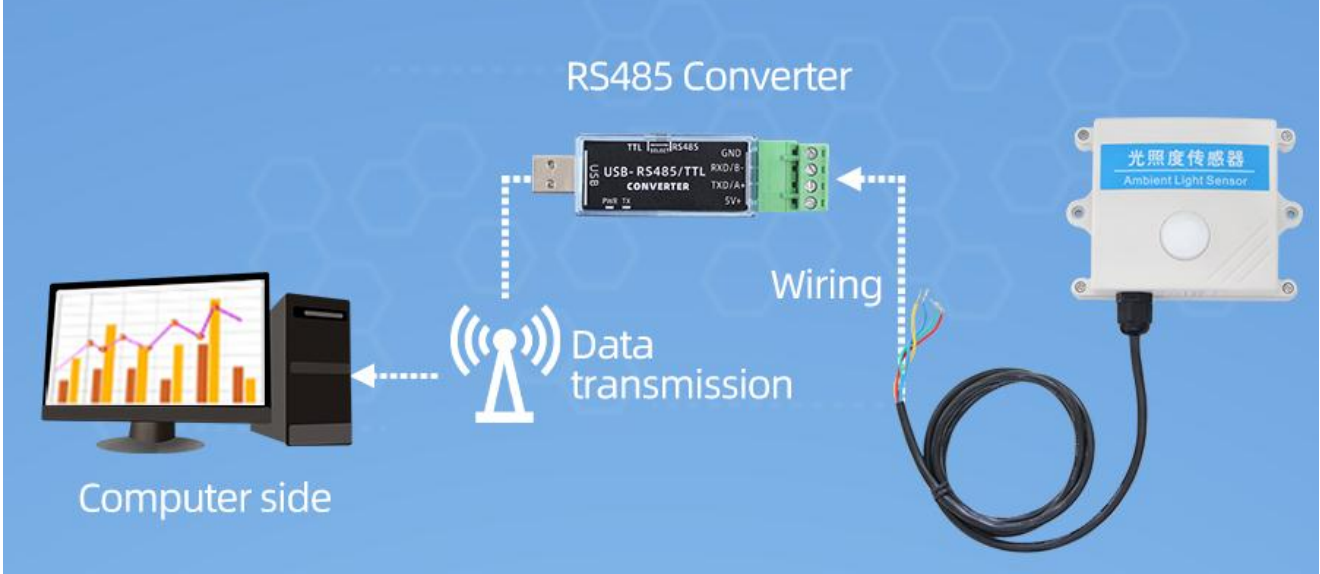
Voltage type wiring

	RD	PWR+
	BK	PWR-
	BU	V OUT

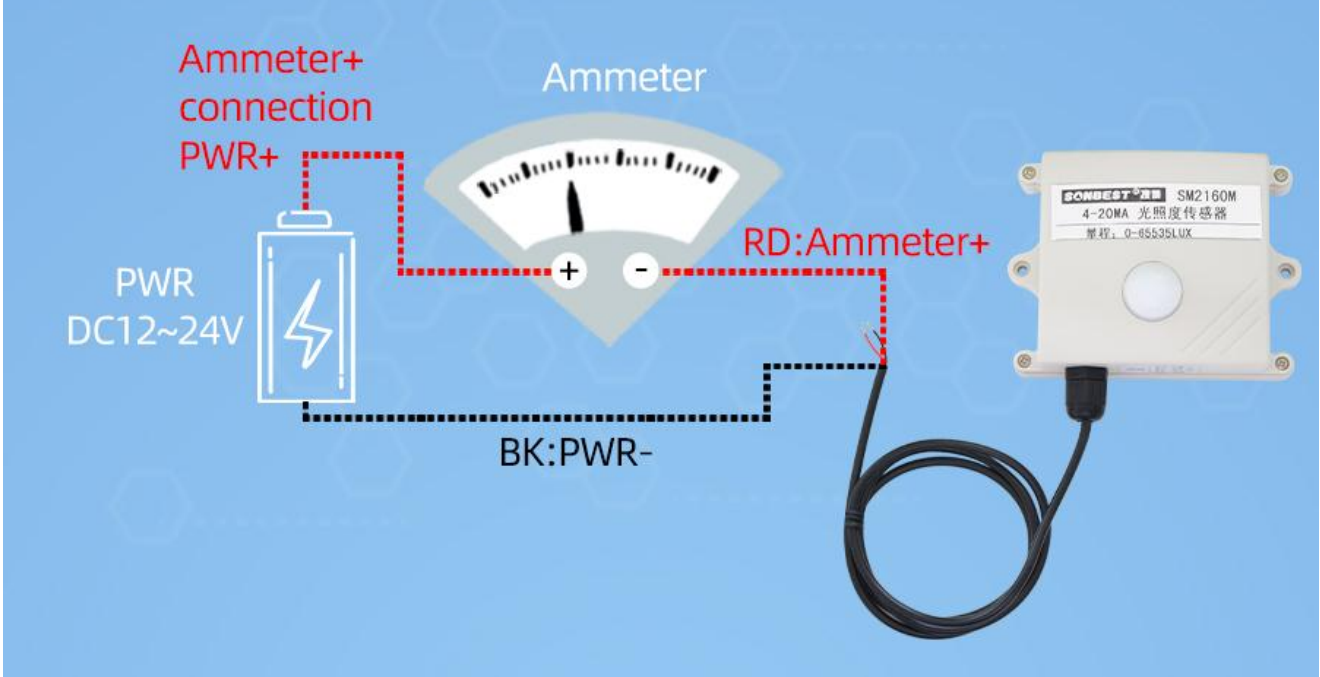
※Note: When wiring, first connect the positive and negative poles of the power supply, and then connect the signal line

Application solution

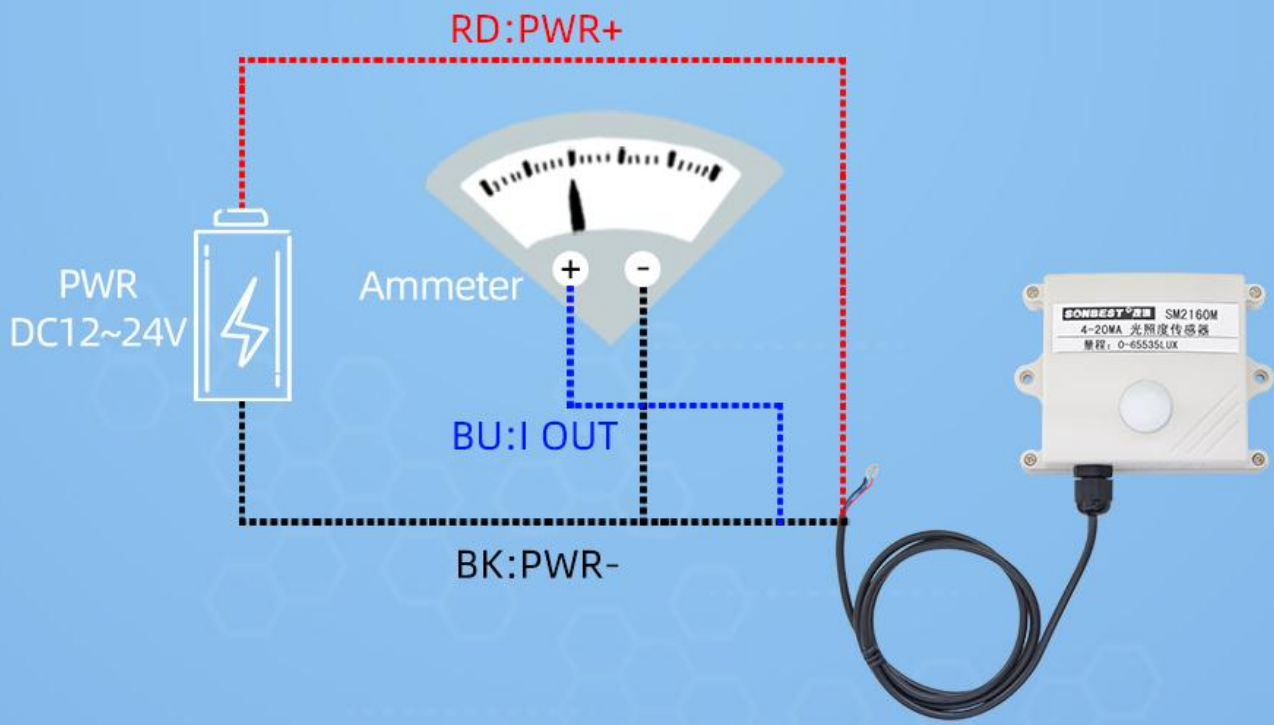
■ RS485 Wiring



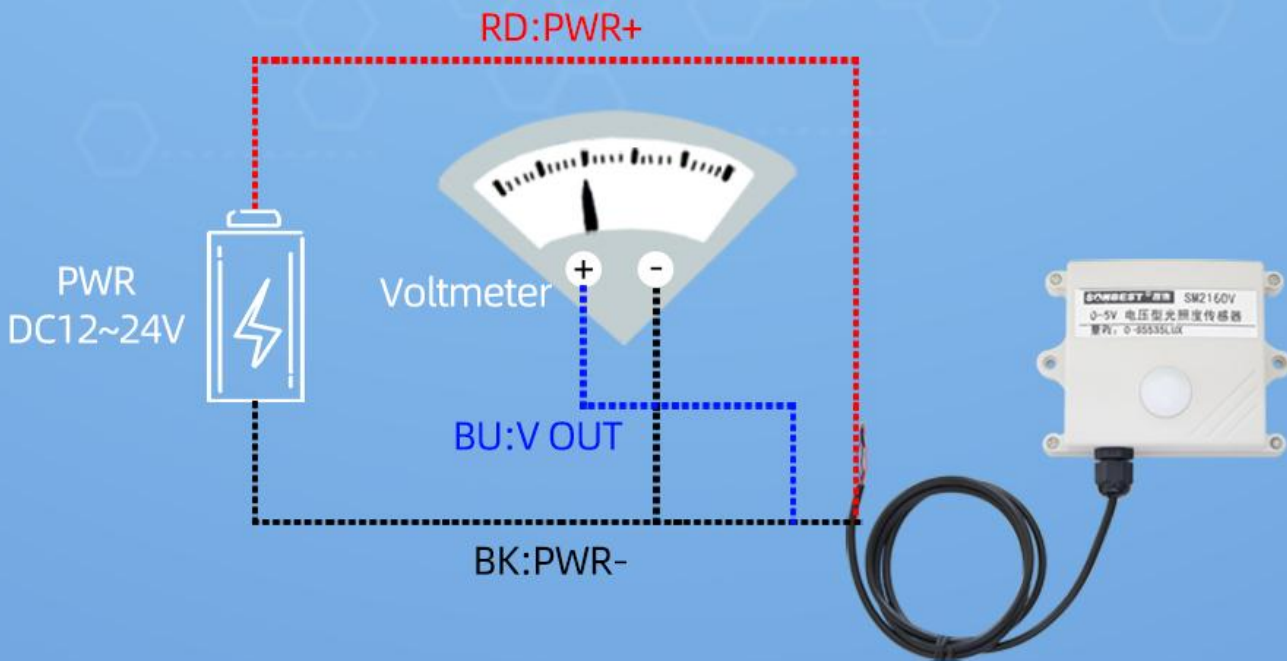
■ Current two-wire system wiring



■ Current three-wire system wiring



■ Voltage wiring



How to use?



Greenhouse

Cooperate with sensors to effectively manage, create a good lighting environment for crops, and promote better photosynthesis

Flower planting

Flower farming needs light management, according to the plant's light needs to cooperate with the sensor to control the light intensity





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