Illumination/T&H sensor

Model ES-S222B

Main features

- High-precision illumination detection measurement range 0-60,000 Lux, 0-200,000 Lux optional.
- Multiple output signals optional
- Wall-mounted waterproof housing, high protection level, can be used outdoors or in harsh field environments
- 10-30V DC wide voltage power supply

Compliance

The electromagnetic compatibility in accordance with the following applicable directives:
LVD 2014/35/EU Low Voltage
EMC 2014/30/EU Electromagnetic Compatibility
EMC 2014/35/EU Electromagnetic Compatibility

Introduction

ES-S222B is a high-precision Illumination temperature humidity sensor, and the output value unit is Lux. The device adopts imported chip with high stability performance. It equipped with a wall-mounted waterproof shell, wall-mounted installation, and has a IP65 protection level.

It supports measuring single illuminance or measuring temperature, humidity and illuminance simultaneously. The product is powered by a 10-30V wide voltage supply default. .
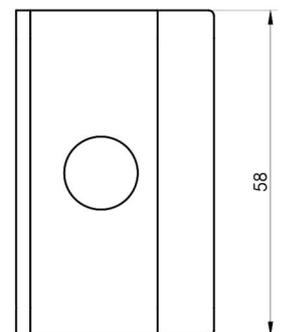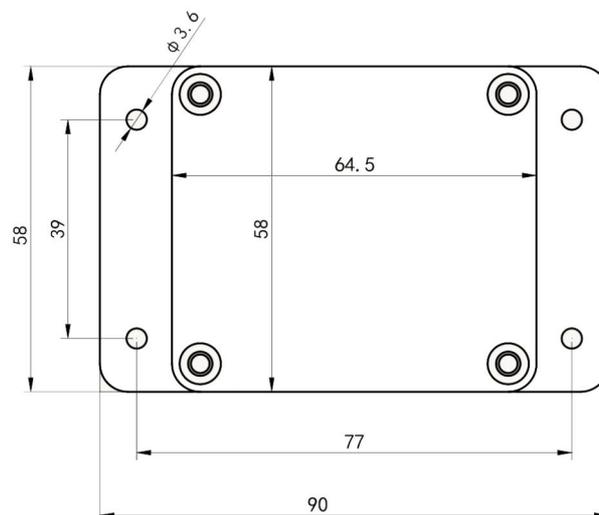
It supports 4-20mA/0-10V/0-5V multiple analog output signals or RS485 Modbus output. It default output standard Modbus-RTU communication protocol, supports secondary customized development if required. End user can choose any signal type according to their applications.

Application

It is mainly used in agricultural greenhouses, flower cultivation greenhouses, agricultural fields, electronic equipment production lines and other occasions that require light intensity monitoring.

Dimension

Unit:mm

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Specification

Power supply	10~30VDC(0~10V type only supply 24VDC)	
Illumination range	0~65,535 lux, 0~200,000 lux	
Temperature&humidity range	-40°C~+60°C，0%RH~80%RH	
Output signal	RS485(Modbus-RTU protocol)、4-20mA、0-5V、0-10V	
Maximum power consumption	RS485	0.4W
	Current output	1.2W
	Voltage output	
Accuracy	Temperature	±0.5°C（25°C)
	Humidity	±3%RH(5%RH~95%RH,25°C)
	Illumination	±7%（25°C)
Long-term stability	Temperature	≤0.1°C/y
	Humidity	≤1%/y
	Illumination	≤5%/y
Response time	Temperature	18s (1m/s wind speed)
	Humidity	≤6s (1m/s wind speed)
	Illumination	0.1s
Load capacity	Current output	Output resistance ≤250Ω
	Voltage output	≤600Ω
Protection level	IP65	

Order guide

ES-S222B	Illumination/ T&H sensor			
	CODE	Function type		
	A	Illumination		
	B	Illumination and temperature and humidity		
		CODE	Signal output	
		1	4-20mA	
		2	0-10V	
		3	0-5V	
		4	RS485	
ES-S222B	A	1	Order example	

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