RSA-SAI Ambient Light Sensor/Transmitter

Applications & Features

- RSA-SAI series are designed for detecting ambient light level. They can be widely used for lighting control applications in various indoor or outdoor environments such as warehouse, computer room, workshop, record room, library, school, shopping mall, smart home, hotel, park, airport and railway station, etc.
- High sensitive sensor and precise linear amplifier circuit, accurate measurement and temperature compensation, good long term stability and reliability
- Light and state of art housing supplies two different install and wiring ways, with high protect rate, delicate structure
- Power and output have over voltage and reverse polarity protection, high reliability and anti-interference capability

Specifications

Sensor: High sensitive light sensor
Measurement wave length: 400~700nm, peak response 550nm, with match degree 99%(typical)
Range: 0~1000/2000/5000/10000 lux (jumper selectable)
Accuracy: ±5 %FS@25°C
Repeatability: <4%FS
Thermal effect: <0.01%FS/°C(typical)
Response time: <1s
Output: 0~10V/4~20mA (default), RS485/Modbus RTU
Display: 4 bits LCD
Load resistance: ≤500Ω (4-20mA), ≥2kΩ(0-10V)
Power supply: 16~28VAC/16~35VDC
Working environment: -20~70°C, 0~95%RH (Non-cond.)
Storage temperature: -20~70°C
Housing: fire retardant ABS+PC(UL94V-0)
Protection: IP65 (except for the hole on the basement)
Approval: CE

Models

Models	RSA-SAI				Ambient Light Sensor/Transmitter
Output		1 8			0~10V/4~20mA RS485/Modbus
Display			0 1		N/A LCD
Housing				0 1	PG9 Gland inlet cable Basement inlet cable

1. Illumination is the unit of light intensity, popular defined as flux (lm) on unit area(m^2), also known as lux.
2. Generally, in summer's sunny day the illumination will be 30~300,000 lux; cloudy day is 3~10,000 lux; sun rise/sun set is 300~400 lux. Illumination for indoor is 10~2000 lux for different lighting status and <1 lux during night without any lighting.

RSA SENSORS - ATENDIMENTO

ESCANEAR O QR CODE COM A CAMERA DO CELULAR, PARA CHAMAR NO WHATS APP