

Document Type	Part No.	
DATA SHEET	SUF005A001	
Product Name	Revision No	Page No
Dual Solar Sensor	00	1 (3)

Dual Solar Sensor



Applications

The dual solar sensor is mounted on the dash panel near the front window. It uses two photodiode cells to measure the intensity of solar radiation and give electric information which is proportional to the calorific power and representative for the intensity of that. And then feeds it back to the automatic temperature control (ATC) unit of the vehicle's air conditioning system. The air temperature of the driver side and passenger side are then automatically adjusted up or down, depending upon the amount of light entering both sides into the vehicle.

Features

- Fast response time
- Easy to install
- Linear response to sun light intensity
- Horizon to horizon visibility
- Narrow signal tolerance



Advanced	Sensor
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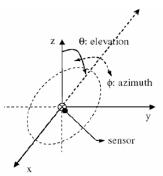
Document Type	Part No.	Part No.	
DATA SHEET	SUF005A	SUF005A001	
Product Name	Revision No	Page No	
Dual Solar Sensor	00	2 (3)	

1. Solar Sensor Specification

• Operating Temp. Range: -30°C to 100°C

• Storage Temp. Range: -40°C to 110°C

• Sensor output current : 0.145mA±15% (at Φ = -90 °/90 °, θ = 40°) [2856K Standard A light source, 31.5 (mW/cm²) or 14,040 (LUX)]



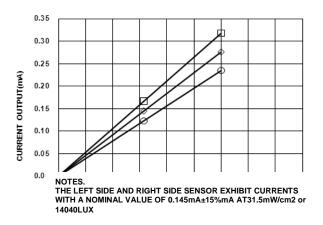


Fig 1. Current output vs. Light level.

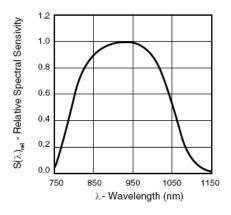


Fig 2. Relative Sensitivity vs. wavelength

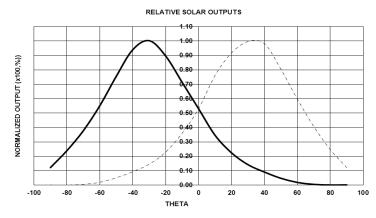


Fig 3. Relative Solar Output

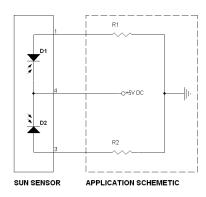


Fig 4. Application Schematic Example

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Document Type	Part No.		
DATA SHEET	SUF005A0	5A001	
Product Name	Revision No	Page No	
Dual Solar Sensor	00	3 (3)	

2. Dimension

