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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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 Advanced Sensor	Document Type DATA SHEET	Part No. SUF005A001	
	Product Name Dual Solar Sensor	Revision No 00	Page No 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

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 $\Phi = -90^\circ/90^\circ$, $\theta = 40^\circ$)
[2856K Standard A light source, 31.5 (mW/cm²) or 14,040 (LUX)]

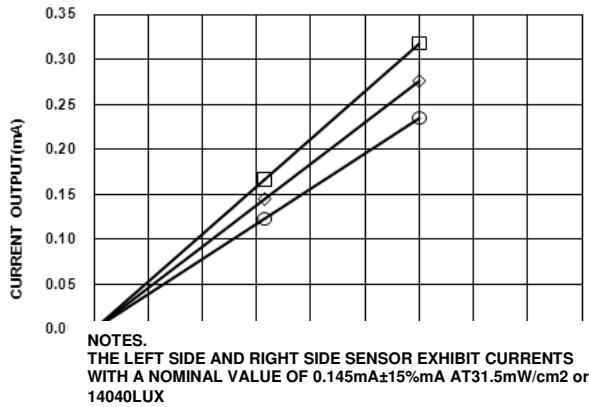
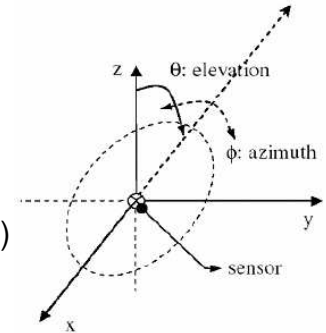


Fig 1. Current output vs. Light level.

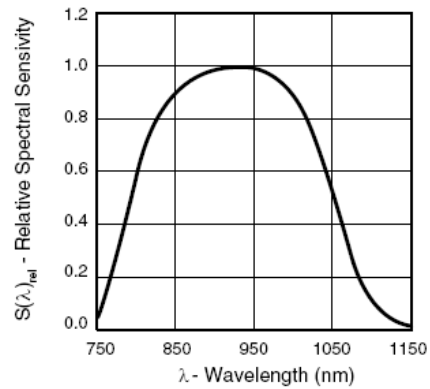


Fig 2. Relative Sensitivity vs. wavelength

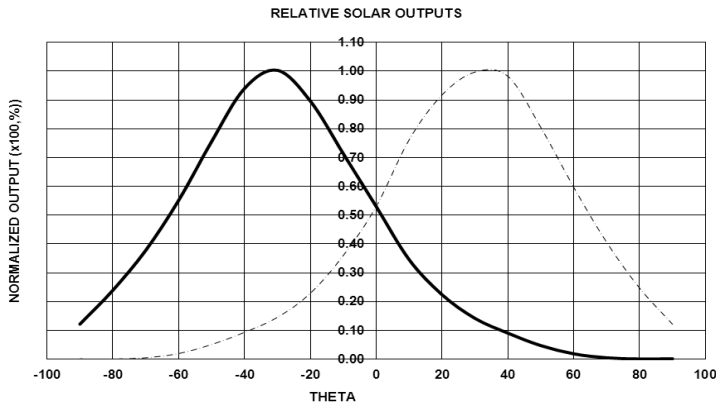


Fig 3. Relative Solar Output

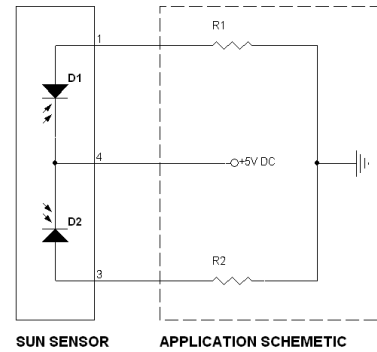
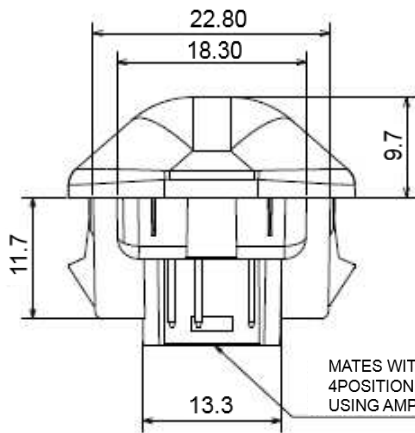
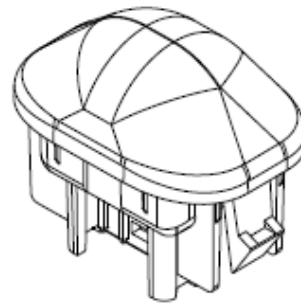
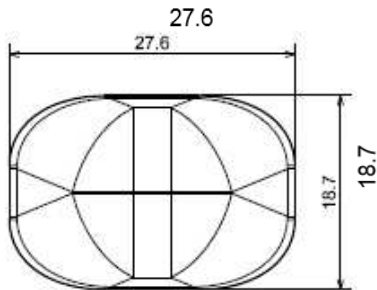


Fig 4. Application Schematic Example

2. Dimension



MATES WITH AMP 1241680-1
4 POSITION CONNECTOR
USING AMP 167418 TERMINALS

