



T H E R M O M E T R I C S  
A COMMITMENT TO EXCELLENCE

# Dual Solar Sensor



The Dual Solar Sensor is mounted on the dash (IP panel) near the front window. It uses two internal photo diode cells to measure the intensity of the light that enters into the cabin of the vehicle. The sensor then takes this information and feeds it back to the automatic temperature control (ATC) unit of the vehicle's air conditioning system. The air temperatures of the driver and passenger sides are then automatically adjusted up or down, depending on the amount of energy entering both sides of the vehicle compared to the settings of the ATC.

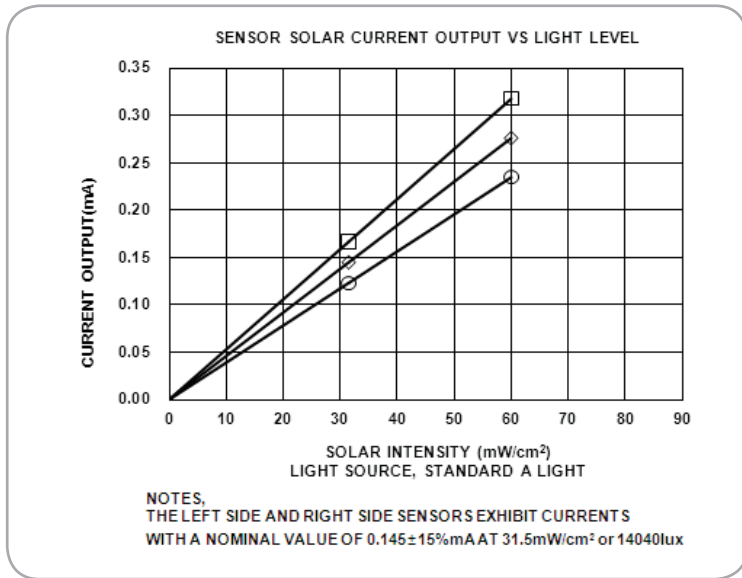
## Applications

- Dual air conditioner and HVAC systems for automobiles

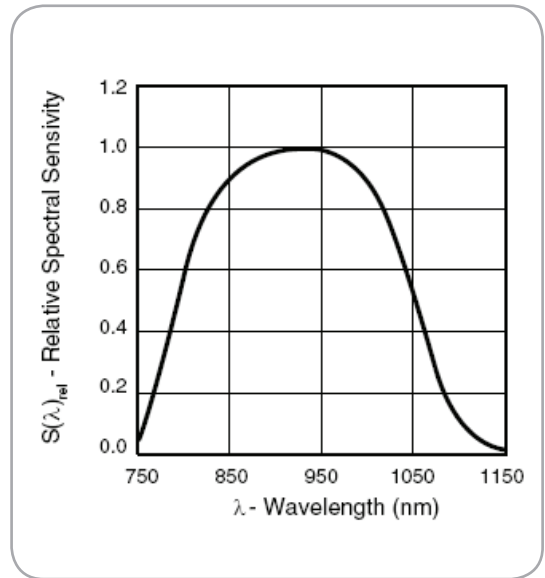
## Features

- Fast response time
- Easy to install
- Linear response with sunlight intensity
- Horizon to horizon visibility
- Higher current output
- Tight signal tolerances

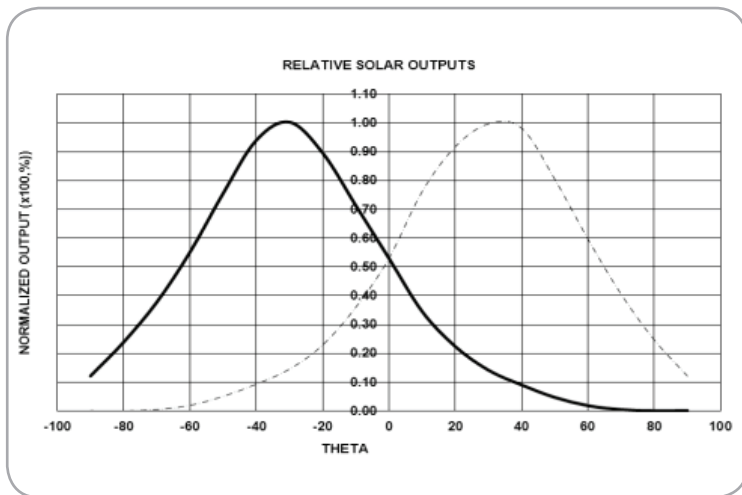
**Amphenol**  
Advanced Sensors



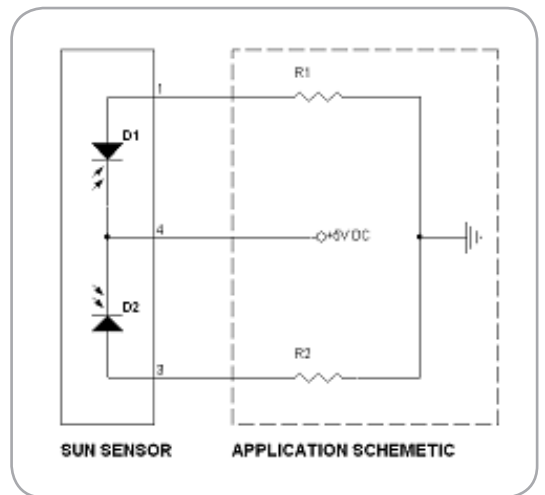
*Current Output Vs. Light Level*



*Relative Spectral Sensitivity Vs. Wavelength*



*Relative Solar Output*



*Application Schematic*

## Specifications

### Operating Temperature Range

-30°C to 100°C

### Storage Temperature Range

-40°C to 110°C

### Output Current

0.145 mA ± 15% at Phi = -90°/90°, Theta = 40° (2856K Standard A light source, 31.5mW/cm² or 14040LUX)

# Drawings

