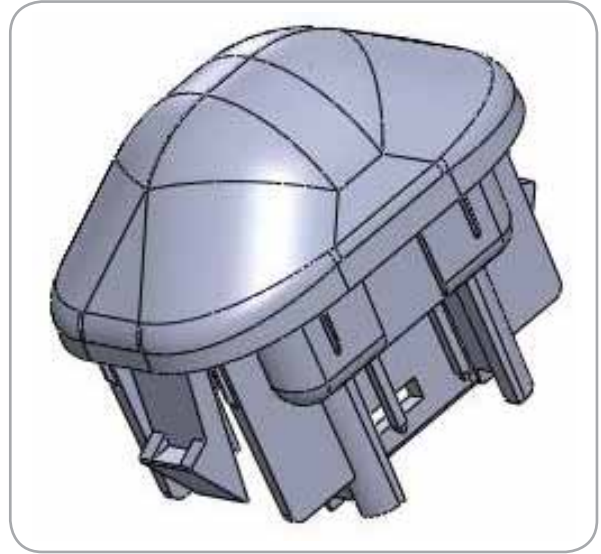


T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

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 side and passenger side are then automatically adjusted up or down, depending upon the amount of light entering both sides of the vehicle.

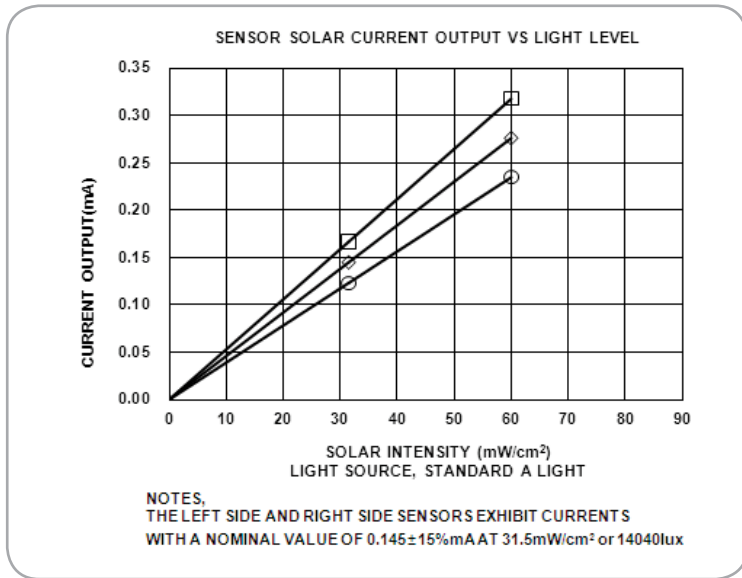
Applications

- Dual air conditioner and HVAC systems for automobiles

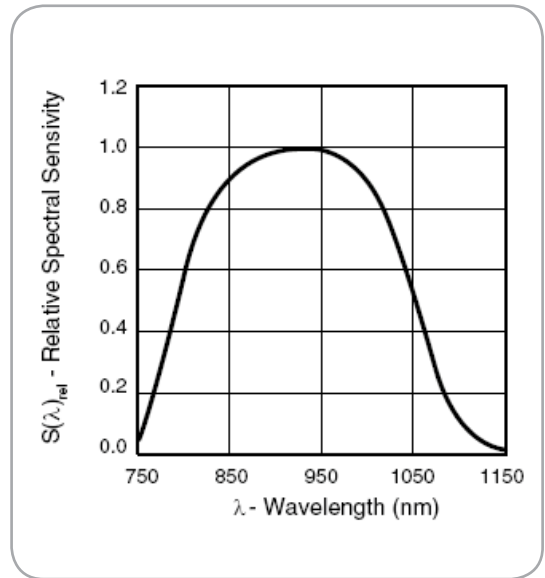
Features

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

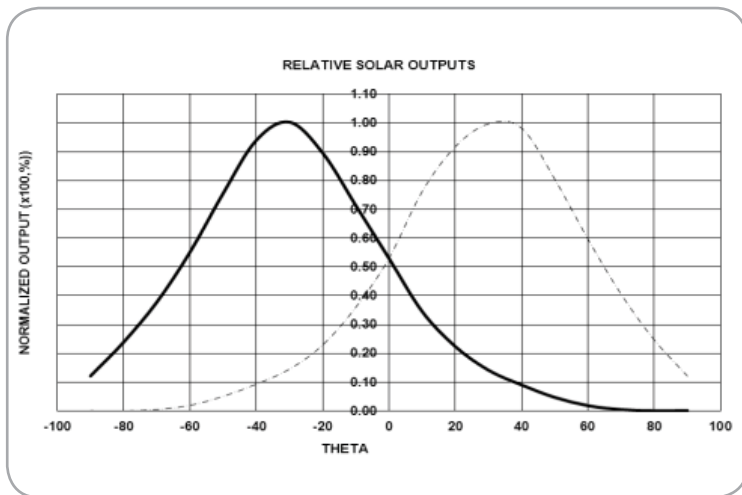
Amphenol
Advanced Sensors



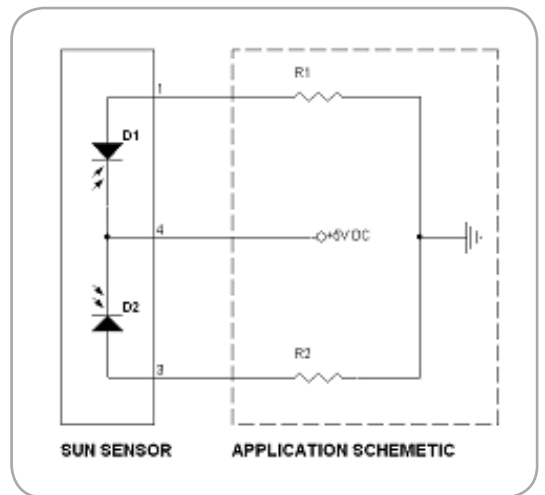
Current Output Vs. Light Level



Relative Spectral Sensitivity Vs. Wavelength



Relative Solar Output



Application Schematic

Specifications

Operating Temperature Range

-30°C to 100°C

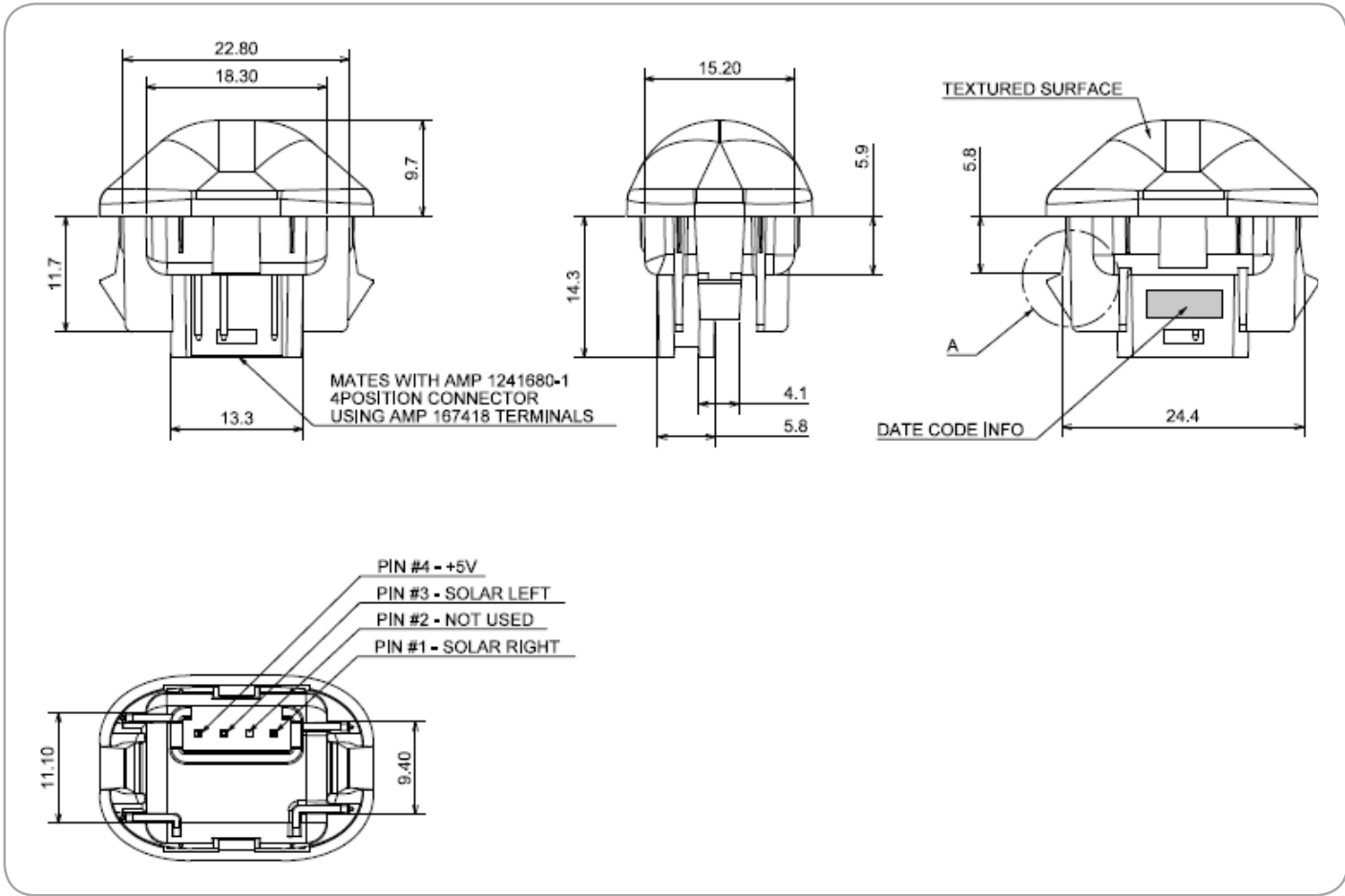
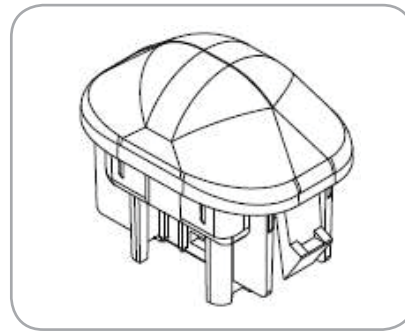
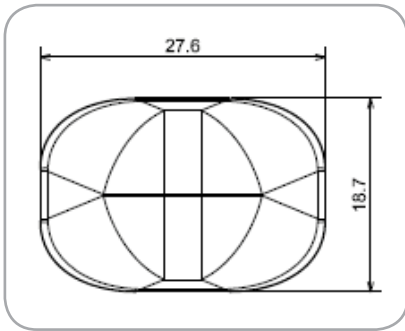
Storage Temperature Range

-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



Amphenol

Advanced Sensors

www.amphenol-sensors.com

© 2014 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice.
Other company names and product names used in this document are the registered trademarks or
trademarks of their respective owners.

AAS-920-539A-03/2014