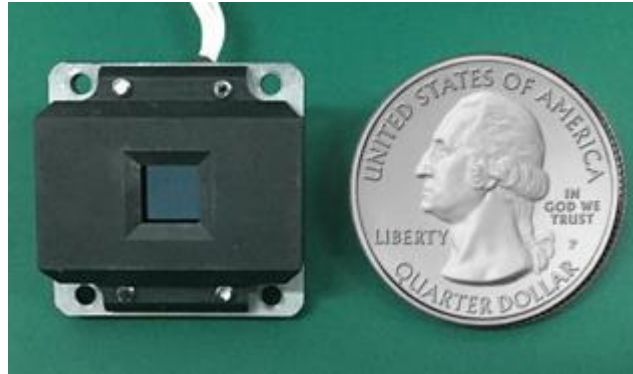


Sun sensor array

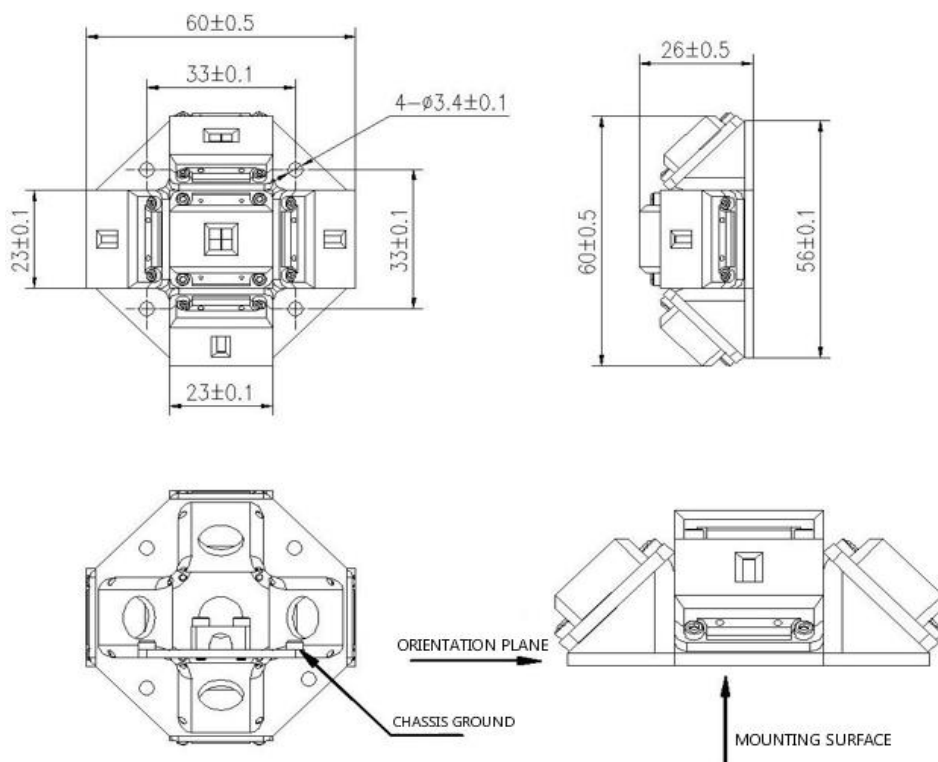


Single sun sensor

## PRODUCT DESCRIPTION

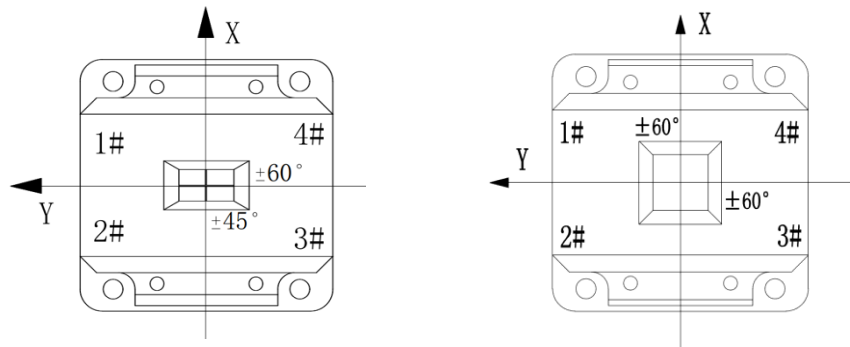
A sun sensor is one of the most important sensors in a satellite's attitude determination and control system. Different types of sun sensor have been developed for the unique mission requirements. With careful design and test, the OCE analog and digital sun sensors have achieved small size size and weight, low power consumption, and simple reliable design characteristics. In particular, they have better measurement accuracy and field of view, thus providing an excellent design for the next generation of micro-satellites.

The sun sensor is a differential analogue type with four-quadrant solar cells. The system is composed of solar cells, diaphragm, shell and processing circuit. The solar cells are mounted symmetrically into four insulated square areas, which are connected to separate processing circuits. When solar rays enter the cell at a certain angle each quadrant generates a different current. By measuring the output current of the four quadrants the relative position can be calculated, and then the sun vector.



# SS Series

## Sun sensor



### SPECIFICATIONS

Field of view	60° full-angle circular
Accuracy	±1°
Temperature range	-80°C to +80°C
Power Consumption (W)	None required
Dimensions	Sun sensor array: 60mm×60mm×26mm
	Medium sun sensor: 23mm×23mm×7mm
Mass	Sun sensor array: 77 grams
	Medium sun sensor: 5 grams
Technology	Photocell
Life (years)	> 5 years
Orbit	LEO
Heritage	Multiple missions

All registered trademarks are respected

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