

Miniature Spinning Sun Sensor ($\pm 87.5^\circ$)

RAD-HARD HI-REL

Adcole Spinning Sun Sensors are uniquely designed to provide sun aspect angle and sun crossing pulses for spinning spacecraft.

This information is used to determine spin rate and spin axis orientation relative to the sun.

The Adcole Miniature Spinning Sun Sensor is designed for use on small spinning satellites. This sensor has flown on the ST5, Themis, and MMS satellite clusters.



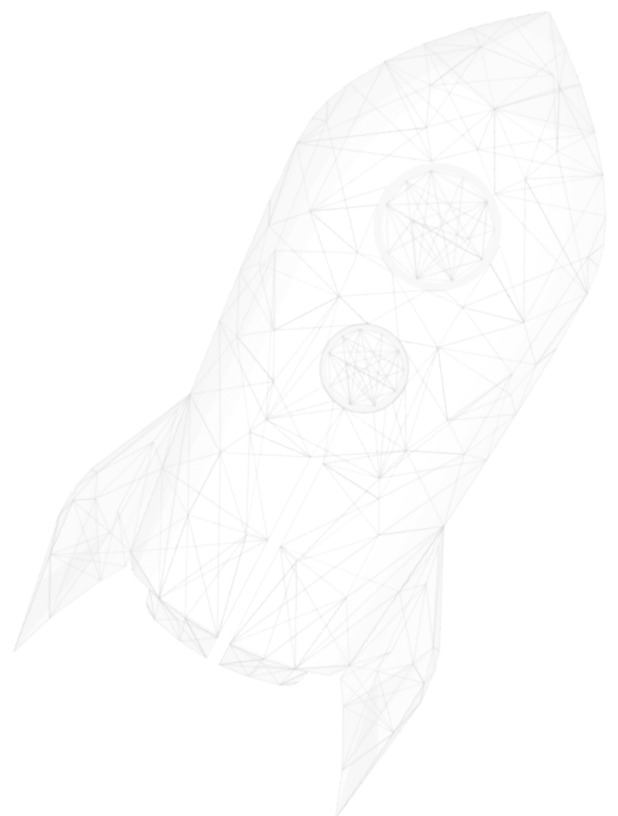
PARAMETERS

Field of View	$\pm 87.5^\circ$ (from normal to spin axis)
Accuracy	$\pm 0.25^\circ$
LSB Size	0.125
Input Power	+12 V to +15 V (consumption less than 0.5 W)
Output Power	Parallel 11 data bits plus sun crossing pulse output
Weight	0.25 kg max
Size	57mm x 51.5mm x 51 mm



CONFIGURATION

Features	Fully integrated unit with optical heads and electronics processing circuitry.
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COMPANY HERITAGE

Founded by Addison Cole in 1957, the sun sensors designed by Adcole have flown on numerous space exploration missions, including all Mars Rovers, New Horizons, Juno, and the Parker Solar Probe. An engineer by trade, Cole invented a sun angle sensor that enables rockets and satellites to maintain their orientation in space. Cole's invention, which is in use by space agencies today, provided the impetus behind the launch of Adcole Corporation.

