



SentinelSUN: Coarse Sun Sensor Pyramid

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The Redwire Coarse Sun Sensor (CSS) Pyramid is a 2 axis sensor containing four detectors, used for applications including solar array pointing, sun acquisition, and failsafe recovery.

PRODUCT INFORMATION

- + The CSS Pyramid consists of four CSS detectors on a common bracket, providing 2 axes of sun angle data. Each detector is canted $\pm 45^\circ$ from the vertical (Null).
- + The CSS Pyramid can be fitted with a set of custom baffles to accommodate nearly any FOV restrictions caused by other spacecraft elements. Many existing baffle designs are also available.



CSS
PYRAMID

PRODUCT SPECIFICATIONS

ACCURACY	$\pm 1^\circ$ (Null), $\pm 4^\circ$ (Linear Range)
FIELD OF VIEW	$\pm 35^\circ \times \pm 35^\circ$ (Linear Range), Full FOV up to 2π sr
ELECTRICAL INPUT	No power required
ELECTRICAL OUTPUT	Four solar cell currents Option: Four voltage outputs
ELECTRICAL INTERFACE	9 pin rectangular connector
MECHANICAL INTERFACE	4x Through-hole fasteners, #8 or M4
WEIGHT	Typ. 125 g
ENVELOPE	89 mm x 89 mm x 41 mm
SHOCK & VIBE	4000 g (Pyroshock), 40 g _{RMS} (Random)
OPERATING TEMPERATURE	-120°C to +120°C
RADIATION	> 100 krad (Si), immune to SEE



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