



SentinelSUN: Coarse Sun Sensor Detector

> Coarse Sun Sensor Detector

The Coarse Sun Sensor (CSS) Detector is a single element cosine-type sun angle sensor, outputting a short circuit current in proportion to illumination intensity.

PRODUCT INFORMATION

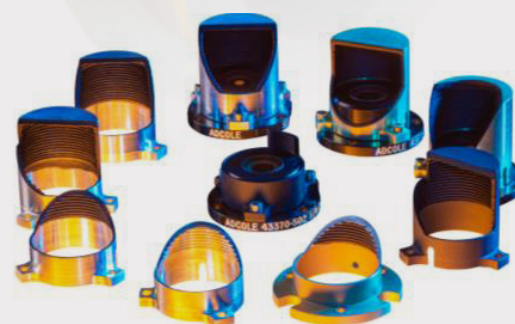
- + The CSS-STD can be fitted with a baffle to accommodate nearly any FOV restrictions. ~100 baffle designs available.
- + CSS-RT is offered as lower priced alternative with less stringent thermal testing (-60°C to +85°C).
- + 1000+ CSS Detectors have been delivered with 100% mission success.



CSS
DETECTOR

PRODUCT SPECIFICATIONS

MODELS	CSS-STD, CSS-RT
ACCURACY	≈5° (when multiple units used together to generate a sun vector solution)
FIELD OF VIEW	±85°
ELECTRICAL INPUT	No power required
ELECTRICAL OUTPUT	One solar cell current
ELECTRICAL INTERFACE	Two solder posts (pigtail option)
MECHANICAL INTERFACE	3x Through-Hole Fasteners, #2 or M2
WEIGHT	Typ. 12 g
ENVELOPE	28 mm dia flange, 12 mm height
SHOCK & VIBE	4000 g (Pyroshock) 50 g _{RMS} (Random)
OPERATING TEMPERATURE	CSS-STD: -150°C to +150°C CSS-RT: -60°C to +85°C
RADIATION	> 100 krad (Si), immune to SEE



CSS DETECTOR (CENTER) AND
SEVERAL BAFFLE OPTIONS



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