



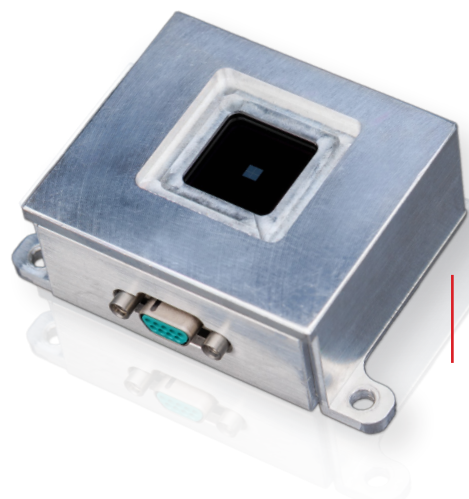
SeekerSUN: Quad Sun Sensor

> Quad Sun Sensor

The Quad Sun Sensor (QSS) uses a quad-element photodiode to measure the solar attitude angle in two axes.

PRODUCT INFORMATION

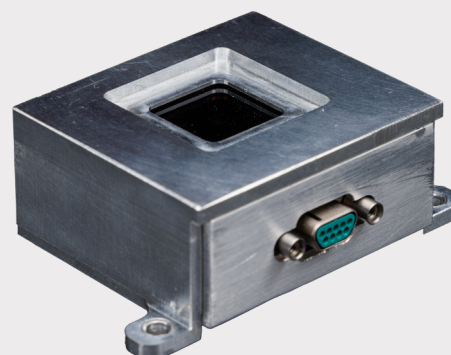
- + Buffered photo-diode outputs (four voltages) are processed by customer to determine solar attitude angle using Redwire-supplied transfer function and calibrated coefficients.



Quad Sun Sensor (QSS)

PRODUCT SPECIFICATIONS

ACCURACY	<1.5° (Center) <2.5° ($\pm 35^\circ$ min.)
FIELD OF VIEW	$\pm 65^\circ$
ELECTRICAL INPUT	4 – 14 VDC
ELECTRICAL OUTPUT	4 Voltages
ELECTRICAL INTERFACE	9 Pin Micro-D Connector
MECHANICAL INTERFACE	3x Through-Hole #4 Fasteners
WEIGHT	50 g
ENVELOPE	38.1 x 44.5 x 19.8 mm
SHOCK & VIBE	1500 g pyro-shock to 10,000 Hz Vibration to 14.1 g _{RMS} , 3-axes
OPERATING TEMPERATURE	-40°C to +75°C
RADIATION	50 krad TID (Si)



Quad Sun Sensor (QSS)



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