



MINIATURE SPINNING SUN SENSOR ($\pm 87.5^\circ$)



RAD-HARD HI-REL

Redwire 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 Miniature Spinning Sun Sensor is designed for use on small spinning satellites. This sensor has flown on the ST5, Themis, and MMS satellite clusters.
- + The MSSS is Rad Tolerant, or Rad hard to 100 krad (Si).



PARAMETERS

$\pm 87.5^\circ$ (FROM NORMAL TO SPIN AXIS)

Field of View

$\pm 0.25^\circ$

Accuracy

0.125°

LSB Size

+12 V TO +15 V (CONSUMPTION LESS THAN 0.5 W)

Input Power

PARALLEL 11 DATA BITS PLUS SUN
CROSSING PULSE OUTPUT

Output

0.25 KG MAX

Mass

57MM X 51.5MM X 51MM

Dimensions

CONFIGURATION

FULLY INTEGRATED UNIT WITH OPTICAL HEADS AND ELECTRONICS PROCESSING CIRCUITRY.

Features

Sun Sensors are export controlled through an ECCN (Export Control Classification Number) issued by the United States Department of Commerce, ECCN 7A104. Export shipment requires successful application for an export license.



MADE IN THE USA

Copyright 02/2021 Redwire Corporation. Redwire reserves the right to make changes without further notice to any products herein. Redwire makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Redwire assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential, or incidental damages. "Typical" parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Redwire does not convey any license under its patent rights nor the rights of others. Redwire products are not designed, intended, or authorized for use as components in systems or any other application in which the failure of the Redwire product could create a situation where personal injury or death may occur. Should Buyer purchase or use Redwire products for any such intended or unauthorized application, Buyer shall indemnify and hold Redwire and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such intended or unauthorized use, even if such claim alleges that Redwire was negligent regarding the design or manufacture of the part. Redwire is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not resale in any manner.



FIND OUT MORE ABOUT REDWIRE SOLUTIONS.

REDWIRESPACE.COM | @REDWIRESPACE | SALES@REDWIRESPACE.COM



MADE IN THE USA

V6 APRIL 2021

For more information about our space capabilities,

CONTACT REDWIRE SPACE SALES



HERITAGE

Redwire is a new leader in mission critical space solutions and high reliability components for the next generation space economy. With decades of flight heritage combined with the agile and innovative culture of a commercial space platform, Redwire is uniquely positioned to assist its customers in solving the complex challenges of future space missions. For more information, please visit www.redwirespace.com.

Copyright 02/2021 Redwire Corporation. Redwire reserves the right to make changes without further notice to any products herein. Redwire makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Redwire assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential, or incidental damages. "Typical" parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Redwire does not convey any license under its patent rights nor the rights of others. Redwire products are not designed, intended, or authorized for use as components in systems or any other application in which the failure of the Redwire product could create a situation where personal injury or death may occur. Should Buyer purchase or use Redwire products for any such intended or unauthorized application, Buyer shall indemnify and hold Redwire and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such intended or unauthorized use, even if such claim alleges that Redwire was negligent regarding the design or manufacture of the part. Redwire is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not resale in any manner.



FIND OUT MORE ABOUT REDWIRE SOLUTIONS .

REDWIRESPACE.COM | [@REDWIRESPACE](https://twitter.com/REDWIRESPACE) | SALES@REDWIRESPACE.COM

