



# SATELLITE COMPONENTS

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# 4 $\pi$ SUN SENSOR FOR LOW EARTH SATELLITES



4  $\pi$  Sun Sensor is used in Spacecrafts to find the orientation with respect to Sun. Sun Sensor consists of two optical heads each head has solar cells mounted on three orthogonal sides. Two such heads mounted on two diametrically opposite side of a Satellite gives three direction cosines.

## 4 $\pi$ SUN SENSOR

There are two solar cells on each side for redundancy. A nine pin connector on each head brings out the solar cell out. Specification

- \* Each cell output is given as  
 $I = I_{max} \cos \theta$  where  $I_{max} = 8 \text{ ma} \pm 10\%$
- \* Physical size : 46 x 30 x 32 mm
- \* Mass : 50 g
- \* I/F : 9 pin Micro D connector

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