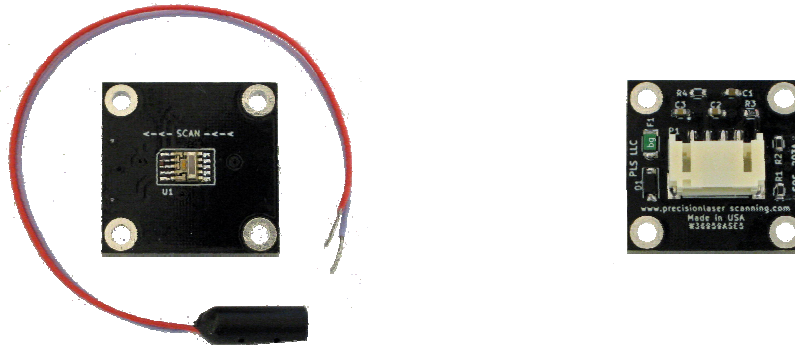


## mini-SOS Detection Kit For AV LIDAR and compact OEM applications



The **Precision mini-SOS detector™** was designed with AV LIDAR in mind. It is a very compact design with the sensor on one side and other electrical components on the connector side. It is rated for -40C to +105C operation. The bi-cell detector design negates position drift due to temperature change. The **Precision mini-SOS Laser Diode Module™** is a very compact source. The red laser is eye safe for convenient alignment. The kit is a matched set for the OEM to easily implement accurate polygon scanning. No need for manual focusing!

Precision Laser Scanning engineers have over 50 years of combined experience implementing polygon scanners in military and civilian LIDAR as well as other high speed polygon scanning applications. We can help with useful tips and tricks to speed your implementation into an efficient scanning system.

Galvanometer scanners use encoders for accuracy. Polygon Scanners use Start Of Scan detection for accuracy. See more information on SOS detection here:

<https://precisionlaserscanning.com/start-of-scan-sos-detection-for-polygon-scan-heads/>

Browse through our *Laser Scanning News* to learn more about high speed polygon scanner technology:

<https://precisionlaserscanning.com/laser-scanning-news/>

Please feel free to ask questions. We are always happy to help:

[info@precisionlaserscanning.com](mailto:info@precisionlaserscanning.com)

# SPECIFICATIONS

## **Precision mini-SOS detector™**

### SIZE

23 x 23 mm

### ELECTRICAL

Input 5 VDC +/- 5% @ 100 mA

SOS Output drive TTL @ 5 mA

Falling SOS signal transition time <7 ns

Optional cable assembly with 300 mm twisted pairs

(COAX recommended for SOS signal transmission over 300 mm)

### OPERATING

Temperature -40C to +105C

Humidity 20 to 85% non-condensing



## **Precision mini-SOS Laser Diode Module™**

### SIZE

5 mm diameter

12 mm length (plus potting and wires)

### OPTICAL

Wavelength 650 nm

<1 mW Class 2

No need for focusing. Plug-n-Play with PLS SOS detectors.



### POWER

5 VDC +/- 5%

Power leads 100 mm length

### OPERATING

Temperature -40C to +80C

Humidity 20 to 85% non-condensing

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Specifications subject to change without notice.

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