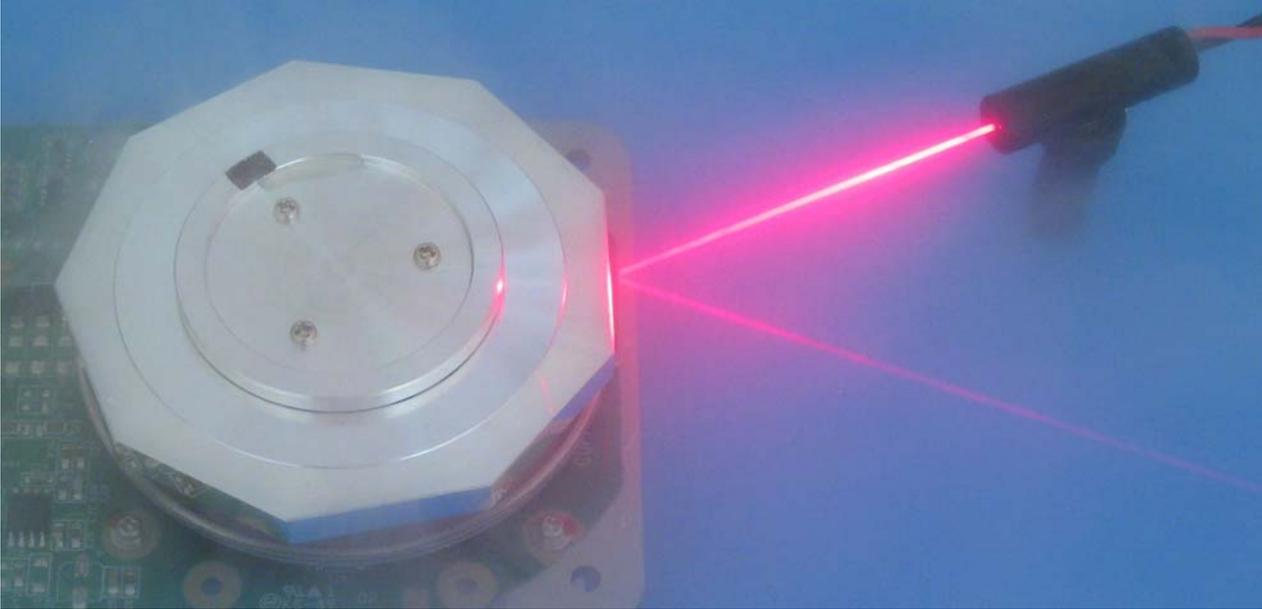


NEW

Precision Start-Of-Scan (SOS) Laser for AV LIDAR and Polygon Scan Heads



It is common practice in low power polygon scanner systems to use the working beam to trigger a Start-Of-Scan (SOS) detector. The SOS trigger is essential for accurate laser scanning. Polygon Scan Heads, used for material processing and LIDAR, employ high power and pulsed lasers. SOS detectors require a low power CW beam so SOS triggering becomes problematic..

Precision Laser Scanning offers a custom CW laser diode module designed specifically for Start-Of-Scan (SOS) trigger in Polygon Scan Heads. The new **Precision mini-SOS Laser Diode Module™** has very narrow divergence so there is no need for manual focusing or external focusing optics. The beam is visible red and eye safe which makes for easy scan head alignment. The new Precision mini-SOS Laser Diode Module is only 5 mm in diameter and 12 mm long. The ultra small size allows integration into a compact Polygon Scan Head or an AV LIDAR system. The SOS laser is typically used out of plane from the working beam to avoid interference. By using a red SOS laser when the working beam is IR, Green or UV makes it possible to filter out interference from the bright working beam. An SOS detection system is far more accurate than a shaft mounted encoder on a polygon scanner. The Precision mini-SOS Laser Diode Module does not need an expensive laser diode power supply. It runs off a regulated 5 VDC supply and lifetime is over 20,000 hours.

Precision mini-SOS Laser Diode Module™

SPECIFICATIONS

NEW SMALLER SIZE

5 mm diameter

12 mm length (plus potting and wires)

BEAM

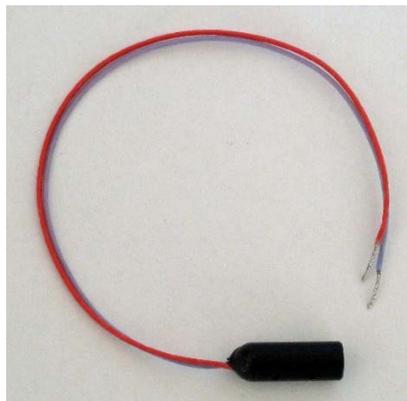
Wavelength 650 nm

Spot is compatible with:

Precision SOS detector

Precision mini-SOS detector

< 1 mW Class 2



POWER

5 VDC +/- 5%

Power leads 100 mm length

OPERATING

Temperature -40C to +80C

Humidity 20 to 85% non-condensing

Life > 20,000 Hours

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Specifications subject to change without notice.

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