

## CSI 430 Laser Speed Sensor



*The CSI 430 measures turning speed without requiring special markings on the shaft.*

- *Provides precise speed detection*
- *Automatically detects shaft speed when used with the CSI 2130 Machinery Health™ Analyzer*
- *No reflective tape required*
- *Works on clean or dirty shafts*

The CSI 430 Laser Speed Sensor measures the turning speed on rotating equipment. It uses a laser beam in conjunction with an advanced signal processing algorithm to measure turning speed without requiring special markings on the shaft.

Readings are possible from up to 30 feet away without reflective tape or up to 100 feet away with reflective tape.

The CSI 430 connects to the CSI 2130 and shines a laser beam on an exposed area of the rotor. The CSI 2130 automatically detects, displays, and incorporates turning speed into the machine measurement. This information is critical for machinery diagnostics and when establishing a new database.

## Technical Specifications

### Operating Distance

- 30 ft (9 m) without reflective tape,  
100 ft (30 m) with reflective tape

### Laser Class

- FDA Class IIIa, < 5mw, 650 nm,  
IEC Class 3B (International)

### Temperature Range

- 15-120° F (-10 to 50° C)

### Accuracy

- +/- 0.05%

### Resolution

- 5 digit display

### Dynamic Range

- 2-120,000+ RPM

### Input Voltage

- 5.0-7.2 VDC (supplied by analyzer)

### Output Voltage

- Analog Voltage Waveform (+/-2.5 volt max)

### Weight

- 0.43 lbs

### Compliance

- FDA, IEC, CE
- Approved accessory for Class I Division II safety-rated  
CSI 2130 analyzers.

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



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#### Asset Optimization

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