

Model CV430 TachPRO™

Fiber-Optic Tachometer



The CV430 TachPRO™ is the standard for precision and reliability in tachometers for rotating machinery measurements. One of Cognitive Vision's PRO Series Instruments, the CV430 offers the user outstanding performance at an affordable price. Improvements over previous models include better detector response, extended battery life and increased performance for fiber-optic cables.

Principles of Operation

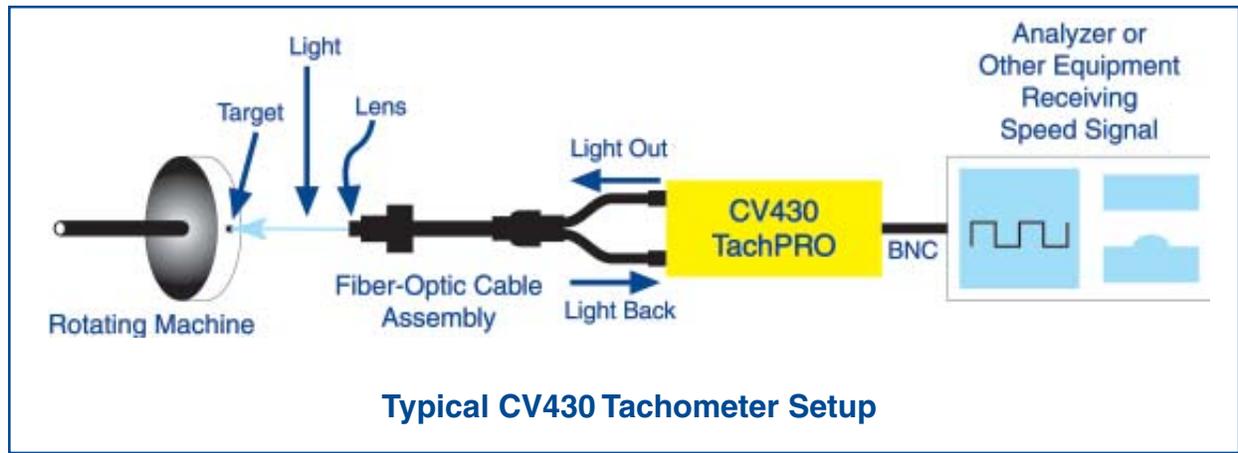
The CV430 operates by detecting reflected light from a target. The unit provides a constant amplitude pulse regardless of machine speed and completely eliminates spacing and alignment problems. The light guide contains a fiber bundle that both transmits and receives light. Light reflected from the target is picked up by the lens and carried back to the detector circuit. The detection circuit provides the electronic pulse used to indicate running speed.



FEATURES

- Easy to install - no critical alignment or spacing
- Constant pulse - regardless of speed
- Ideal for "problem" locations - works from 0.25 in. to 18 in. from the target
- Wide opening range - 0.002 PPS to over 6,000 PPS
- AC or internal nickel cadmium battery power

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Specifications

Output

+3V to +5V Pulse in the presence of reflective target

Operating Temperature Environment

Head Assembly (Fiber-Optic Cable)
-10°C to 110°C (flexible cable movement)
-70°C to 110°C (semi-rigid cable movement)
Electronics (Model 13135A)
0°C to 50°C

External Power Requirements

AC Power
115/230 V~, 0.1A/0.05A, 50-400Hz

Speed Range

0.02 pps to above 6,000 pps

Operating Distance

<0.25 in. to >18 in. (<0.64 cm to >45.7 cm)

Controls

Power On/Off
Sensitivity
10 turn control with locking knob to adjust for distance to target

Head Distance

1.5 in. Length, 0.375 in. outside diameter with 24 N.F. thread

Dimensions (Electronics Unit)

2.625 in. x 7 in. x 4.125 in. (7.3 cm x 17.7 cm)
x10.6cm)

Shipping Weight

5 pounds (2.3 kg)

Fiber-optic Cable Length Option

4 ft. (1.2 m)
10 ft. (3 m) or 20 ft. (6 m)

Ordering Information

Model CV430 TachPRO™ - Fiber-Optic Tachometer

Electronics (Requires - 101, -102, or -103 option)

- 101 4 ft. (1.2 m) Cable for Fiber-Optic Tach
- 102 10 ft. (3 m) Cable for Fiber-Optic Tach
- 103 20 ft. (6 m) Cable for Fiber-Optic Tach
- 104 50 yds. Roll of Reflective Tape for Fiber-Optic Tach



TachPRO™ is a trademark of Cognitive Vision, Inc.

9625 Black Mountain Road, Suite 306

San Diego, CA 92126-4584 USA

Tel: 858-578-3778

Fax: 858-578-2778

E-mail: instruments@cognitivevision.com

Web: www.cognitivevision.com

Specifications and product availability subject to change without notice.

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