

MODEL

RH

INCREMENTAL ENCODER



Integral arm with optional hardware for pivot mounting

Double ended stainless steel shaft and optional measuring wheels

Exclusive Anti-Jitter circuit option

1 to 1200 pulses per revolution

Single output, quadrature, and index outputs

Custom dual or triple output models with any combination of pulses per revolution on each output

Current sinking, current sourcing, NPN open collector, or differential line driver outputs

DC Supply Voltages: 5, 12, 15, 24, 8 to 30, and others

120 VAC Supply Voltage option

For Precise Linear Measuring Applications

The Photocraft Model RH **Pulse Position Indicator** is ideally suited for linear measuring applications. It is usually used with a pair of one-foot or 30 cm. circumference measuring wheels that ride directly on the moving material, eliminating any slippage problems typically encountered in this type of application. With its double wheel construction, the encoder is self-aligning when allowed to pivot freely from its integral arm. The encoder's weight is sufficient to maintain contact when mounted above the moving material. Special mounting accessories are also available for mounting the encoder from below (ask about the MB-UB1).

The model RH converts shaft rotation into square wave output pulses to provide an accurate means of digitizing position, rate or direction of rotation. A shatter-proof optical disk attached to the encoder shaft interrupts an infrared light beam generated by an LED and detected by a photo sensor. Internal wave shaping circuitry provides a square wave output that is compatible with all popular

counters and digital tachometers. When used with measuring wheels it can accurately measure inches, feet, centimeters, inches/min., feet/min., and many others.

Configurations consist of: **unidirectional** that produces a single output (output A) with the specified number of pulses per revolution regardless of which direction the shaft is rotating; and **quadrature** that produces 2 outputs (A and B) for indicating amount and direction of shaft rotation. Both are also available with optional index output (output Z).

The **Anti-Jitter** option was designed for conveyor and web systems that require continuous and accurate measurement of the web's movement even if the system must be stopped and restarted without reset. Anti-Jitter eliminates the effects of mechanical vibration and the possible dither that results in false output pulses and the subsequent erroneous counts when the system is actually stopped. Anti-jitter is available on single output models with up to 60 pulses per revolution.