MODEL RH-P

INCREMENTAL ENCODER

- **Programmable via DIP switches at installation time**
- **User selectable pulses per revolution**
- **User selectable output:**
  Current sinking (NPN),
  Current sourcing (PNP),
  NPN open collector, or
  Push/Pull Output
- **Exclusive "Anti-Jitter" circuit**
- **Short-circuit and ESD protection**
- **5 vdc, or 8 to 30 vdc Supply voltages**
- **Mounts either above or below a web, conveyor belt, or roller**
- **Optional 12 inch or 30 cm. circumference measuring wheels**
- **Fully interchangeable with model RH**
- **RoHS Compliant option**

Programmable Pulse Position Indicator

The RH-P when used with a pair of measuring wheels rides directly on the moving material, eliminating slippage errors typically encountered with shaft encoders. The double wheel construction self-aligns when allowed to pivot freely from its integral arm. It's weight is sufficient to maintain contact when mounted above the material. The MB-UB1 accessory facilitates mounting from below. It generates up to 3 square wave outputs depending on factory installed program and options, on DIP switch values set at installation time, and on shaft rotation as follows:

Pulse Output: A Single output (A) with a specific number of pulses per revolution (ppr) of the shaft; Dual outputs (A and B) with two independent outputs and the ppr on A can be different than the ppr on B; or Triple outputs (A, B, and C) with three independent outputs.

Quadrature: Two pulse outputs, A and B, have the same ppr and are in quadrature relation to each other (A leads B by 90° for clockwise rotation as viewed from shaft end farthest from connector). Indicates distance and direction to any control device that accepts quadrature inputs.

Zero Marker Output: Zero reference or index pulse on output Z occurring once per revolution.

Direction Output: Indicates the direction of shaft rotation.

Minimum Speed Output: Indicates when the shaft exceeds a predetermined revolutions per minute (rpm).

Single output models and any programmable model can include the **Anti-Jitter feature** designed for conveyor and web systems requiring continuous and accurate measurement of the web's movement even if the system must be stopped and restarted without reset. When the web stops, and if there is sufficient vibration or back-and-forth movement, then the encoder output could oscillate, appearing as if the web were actually moving. Anti-jitter eliminates this condition by significantly increasing the pulse hysteresis.

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Photocraft, Inc Phone: 630-365-7148 Fax: 630-365-7149