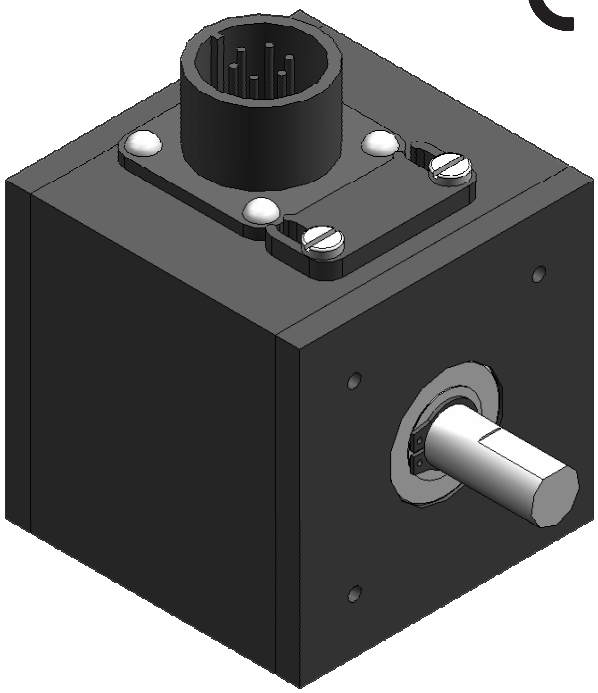
MODEL

RS-P

INCREMENTAL ENCODER



- **1/4", 5/16", 3/8", and 1/2" Shaft Diameters**
- **Double ended shaft option**
- **Hollow Shaft Available - see Model HRS-P**
- **User selectable pulses per revolution**
- **Single output, quadrature, zero marker, direction, and speed outputs**
- **Exclusive "Anti-Jitter" option for Material Handling applications**
- **Supply voltage options: 5 vdc or 8 to 30 vdc**
- **Output Circuits:**
  Push-Pull
  NPN open collector
- **ESD and Short Circuit Protected**
- **Custom models available**

2 1/4" Programmable Cube Style Encoder

The Photocraft Model RS-P is a shaft encoder in a standard 2¼" cube shaped housing that is electrically and physically interchangeable with most available cube style encoders. When coupled to a rotating shaft it generates up to 3 square wave outputs depending on a factory installed program and options, and on DIP switch values set at installation time. The types of outputs are based 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 of shaft rotation to any control device that accepts quadrature inputs.

Zero Marker Output: Provides a zero reference or index pulse on output Z occurring once per revolution, having a pulse width approximately equal to a pulse on output A.

Direction Output: Indicates the direction of shaft rotation, clockwise or counter-clockwise.

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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