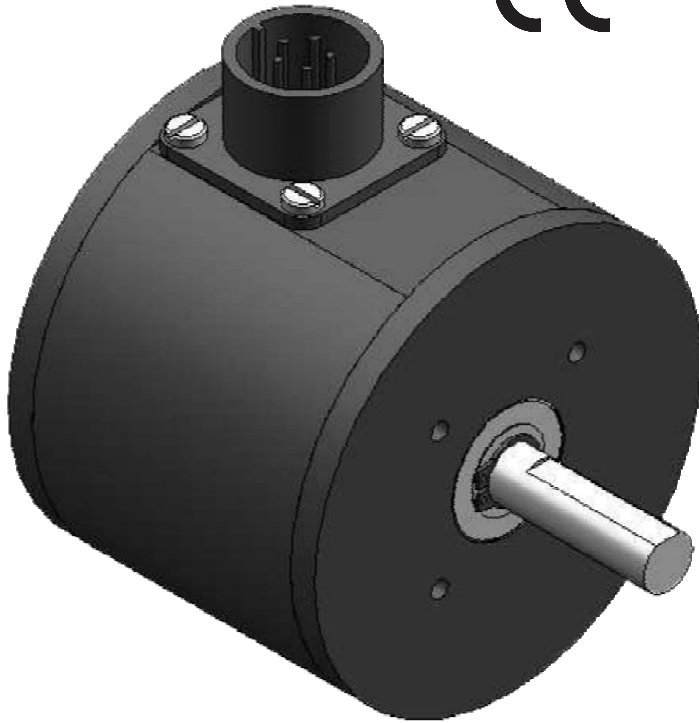


MODEL

RL

INCREMENTAL ENCODER



- Heavy Duty Bearings
- 3/8", 1/2", 5/8", Metric Shaft Diameters
- Double ended 3/8" shaft option
- Hollow Shaft Available - see Model HRL
- Programmable Model - see Model RL-P
- Exclusive "Anti-Jitter" circuit option
- DC or AC Supply Voltages Available
- 1 to 1200 pulses per revolution
- Single, quadrature, and index outputs
- Dual or Triple output models with different ppr on each output
- Short circuit / ESD protection available
- Custom models available

Heavy duty face mount configuration

The Photocraft Model RL rotary shaft encoder with 3/8", 1/2", 5/8", 8mm, or 10mm diameter shaft and bearings was designed for heavy duty applications where a rugged, face mounted encoder is required. When coupled to a rotating shaft, either directly or using a timing belt, it converts shaft rotation into square wave outputs with the specified number of pulses per revolution providing an accurate means of digitizing position, rate or direction of rotation.

Output pulses are generated when a shatter-proof optical disk internally mounted on the encoder shaft and having the specified output pattern is read by 1, 2, or 3 opto-sensors depending on the number of outputs required. The matched LED and opto-sensor pairs, compensation circuitry and rugged aluminum housing assure continuous, reliable operation in industrial environments over a 0° to 70° C temperature range.

Resolutions from 1 to 1200 pulses per revolution are available in single output, quadrature output, and with

optional zero reference (index output). Photocraft also produces many customized models having 1, 2 or 3 independent outputs with any combination of pulses per revolution (up to 360) on each output (call for information).

The "Anti-Jitter" option was designed for conveyor and web applications 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 subsequent erroneous counts when the system is actually "stopped". It also eliminates the need for more expensive quadrature encoders and up-down counters. "Anti-jitter" is available on single output models.

Accessories and customized configurations are available including speed and direction of rotation indication, measuring wheels, special shafts, mounting brackets, and flexible couplings.