

MODEL

RJ

INCREMENTAL ENCODER



Shown with optional side connector and 2 1/2 flange

2 1/4 inch diameter

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**

**Various mounting adapters and custom
shafts are available**

**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

Environmentally Sealed, Multi-Purpose

The Photocraft model RJ optical shaft encoder features rugged construction and flexible mechanical configurations making it ideally suited for many industrial shop-floor environments.

The model RJ converts shaft rotation into square wave output pulses to provide 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.

The electrical outputs are designed to be compatible with most instruments, electronic counters, PLC's and other

similar industrial motion control devices. Optional differential line driver outputs allow for longer cable runs (hundreds of feet) and higher electrical noise immunity.

The model RJ is designed with 3/8" bearings and shaft, seals at the shaft, heavy duty aluminum enclosure with environmental seals, and sealed circular connector.

Resolutions from 1 to 1200 pulses per revolution are available in single output, dual output (quadrature), 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).

A variety of accessories and customized configurations are available including 1 foot or 30 cm. circumference measuring wheels, mounting adapters (including a 2 1/2 square flange), special shaft lengths and diameters, and flexible couplings.