

MODEL
RG
INCREMENTAL ENCODER

CE*



2¹/₄ inch diameter

1 to 1200 pulses per revolution

Single output, quadrature, and index outputs

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

Choice of 5⁵/₁₆ or 3³/₈ shaft diameters

Various mounting adapters and custom shafts are available

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

Pre-wired 10 ft. shielded cable, or optional connector

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

120 VAC Supply Voltage option*

* Requires optional connector.

Economical and Multi-Purpose

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

The model RG 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 RG is designed with 5/16 or 3/8" bearings and shaft, heavy duty aluminum enclosure and with a pre-wired 10 ft. shielded cable or an optional 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 customized models having 1, 2 or 3 independent outputs with any combination of pulses per revolution (up to 360) on each output (call for more information).