

**MODEL**  
**RBX**  
**INCREMENTAL ENCODER**



Thin profile for space constrained applications

Rugged  $\frac{1}{4}$ " thick anodized aluminum housing

$\frac{3}{8}$ " stainless steel shaft and precision ball bearings

1 to 600 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

Supply voltage options: 5, 12, 15, 24, 8 to 30 vdc and others

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

Custom models available

## *A rugged 3 square face mount configuration*

The Photocraft model RBX is a non-contact optical shaft encoder in a rugged, thin profile, face mount configuration designed to provide years of trouble-free operation in industrial environments.

The model RBX converts shaft rotation into square wave outputs having the specified number of pulses per revolution 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 temperature compensated sensors and rugged aluminum housing assure continuous, reliable operation in industrial environments over a 0° to 70° C temperature range.

**UNIDIRECTIONAL - RBX** Provides a single output (A) with the specified pulses per revolution regardless of which direction the shaft is rotating.

**UNIDIRECTIONAL WITH INDEX - RBXZ** Second output (output Z) provides a zero reference or index pulse occurring once per revolution, having a pulse width approximately equal to a single pulse on output A.

**QUADRATURE - RBXQ** Bidirectional encoder provides outputs A and B having the same number of pulses per revolution in quadrature relation to each other. Indicates shaft rotation and direction of rotation to any control device that accepts quadrature inputs.

**QUADRATURE WITH INDEX - RBXQZ** Quadrature encoder with zero reference or index pulse.

**DUAL OR TRIPLE OUTPUT - RBX-a/b/c** Provides two or three independent outputs with up to 360 pulses per revolution in place of the quadrature and index outputs.