



# SE Quadrature Dual Shaft Encoder

The SE Quadrature Dual-Shaft Encoders combine the most routinely-used features in one standard device, and are available with a selection of five different resolutions (pulses/revolution).

The cube-style unit uses an infrared light source and precision mechanical components to provide exact, repeatable counts. Mounting the encoder is quick and easy using the pre-drilled holes in the base flange, or the housing mounting holes located at each shaft output. This encoder can be used as a direct replacement for other brand encoders, with no blind holes to drill. The double-ended, flat-keyed shaft permits a choice of mounting positions. Chrome steel bearings provide 20% longer life than stainless steel bearings.

To aid in troubleshooting, LEDs are located directly on the body to instantly verify correct output operation. Quadrature output is standard and can be externally scaled to provide any engineering unit (RPM, angular position, feet/min., etc.). Gold-plated connectors ensure maximum signal transfer. Very low power consumption; typical current draw, 35mA @ 15DCV.

## Specifications

### DISPLAY

System OK LED,  
operation/verification on trouble  
shooting aid

### INPUTS

12-28 DCV - 35mA@ 15DCV typical  
High noise immunity  
Short circuit protection  
Reverse polarity protection

### OUTPUT

Square wave with 50%  
duty cycle 0 - 10,000 pulse/sec.

### MECHANICAL

Housing--rugged anodized aluminum  
Shaft Rotation--either direction  
Shaft Speed--6,000 RPM max.  
Shaft--stainless steel  
Bearings--heavy-duty chrome steel  
Load--30lbs. radial; 10lbs. axial

### ENVIRONMENTAL

32°F to 149°F (0-65°C)



## Ordering Information

### SE Quadrature Encoders

Pulses Per Revolution	Catalog No.
60	SE-060
100	SE-100
120	SE-120
360	SE-360
600	SE-600

## Installation and Wiring

