



# 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)

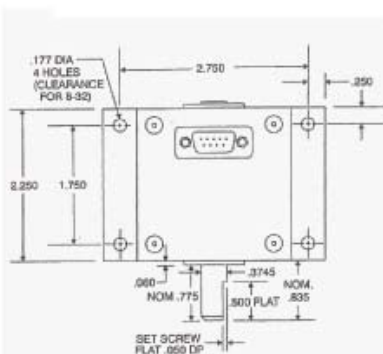


## Ordering Information

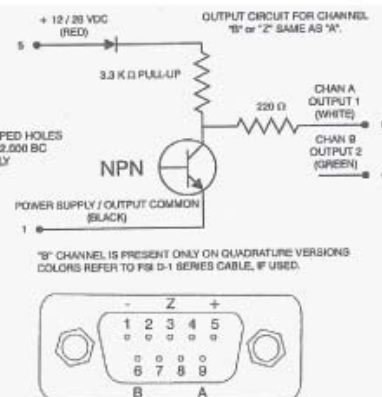
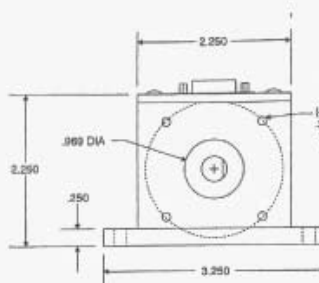
### SE Quadrature Encoders

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

## Installation and Wiring



VARIOUS OPTIONS SHOWN IN THESE DRAWINGS.



VIEW OF THE MALE CONNECTOR MOUNTED ON THE ENCODER.  
THE CORRESPONDENCE BETWEEN FUNCTIONS AND PIN  
NUMBERS REMAINS THE SAME IN ALL VIEWS.