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 to149°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
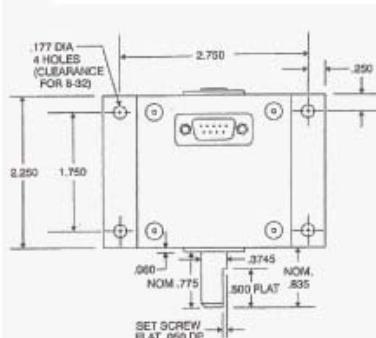
VARIOUS OPTIONS SHOWN IN THESE DRAWINGS.

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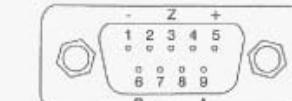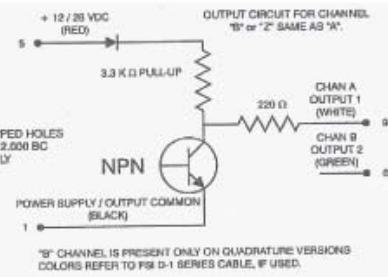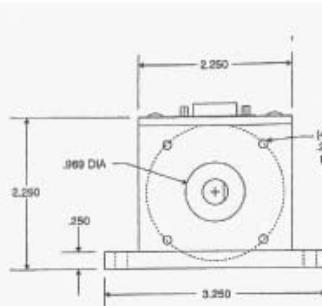
Mouser Electronics

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  [SE-100](#) [SE-120](#) [SE-060](#) [SE-360](#) [SE-600](#)