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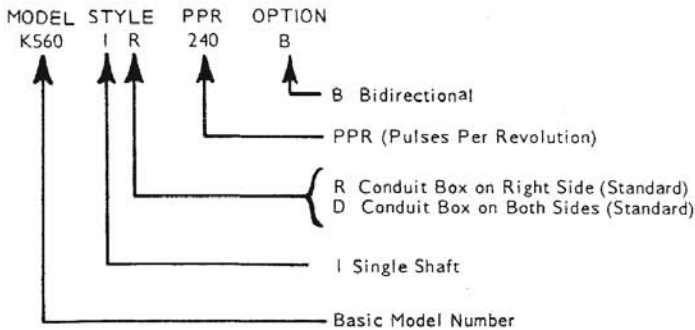
Encoder Instructions

K560
INACTIVE DESIGN
 Replaced by Model AV56

Description

The Model K560 Pulse Generator is a zero-speed rotary transducer; that is, it can operate effectively down to zero RPM. The K560 generates a specific number of pulses for each rotation of its shaft. When the K560 is coupled to a machine, its output is directly proportional to process travel (pulse count) or speed (pulse rate). The output signal is generated by a metal gear rotating in proximity to an encapsulated magnetic transducer, providing long life and high reliability. A rugged cast iron housing, hardened steel shaft, heavy-duty double row bearings provide mechanical ruggedness required for industrial applications.

Various K560 options and how they are shown in the K560 part number are shown below:



CAUTION

The K560 is often used for speed feedback in drive systems, where any failure can cause a machine shutdown. While the K560 is designed for continuous mill operation, it is important to follow proper procedures with this unit.

DO NOT remove the sensor as it can cause the pickup to be misaligned. It is recommended that defective units be returned to the factory. Turn-around time is minimal, and charges are nominal for out-of-warranty units.

DO NOT remove the connector from an unused output on a dual output K560. Otherwise, when it comes time to use the second output, the pins may be corroded.

DO NOT connect grounded oscilloscopes, K761, or any grounded instrument to K560 output.

DO NOT connect oscilloscope or any instrument "common" to any pulse generator connection other than "common" (Pin A).

DO NOT force or drive coupling onto the shaft, or damage to the internal run-out absorbing spring may result. Provide clearance between shaft ends to allow for thermal expansion & end play.

Specifications

Load Impedance K560 output is short circuit protected to common

Speed Range 0 to 3000 rpm

Operating Temperature -20° to 80° C ambient

Weight 17 lbs. (Style 2D)

Operating Power (each pickup) 12 VDC at approx. 50 ma.

Output Signal (std. connection) ... Two channels in quadrature (two-phase)

Pulses per revolution 60, 240 PPR

Wave Shape Square Wave

Voltage Swing (no load) 0.5 to 5.6 V. (with respect to common)

Frequency 0 to 12 kHz max. at 3000 rpm (240 ppr)

Output Impedance 180 Ohms pull up, 50 ma. sink

