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Encoder Instructions

M760

INACTIVE DESIGN

Contact Help Desk

Description

The Model M760 Pulse Generator is a zero-speed rotary transducer; that is, it can operate effectively down to zero RPM. The M760 is designed to face mount between two drive system elements, typically a motor and DC Tachometer generator having a NEMA 56C face mounting and dimensions. The M760 generates a specific number of pulses for each rotation of its shaft. When the M760 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 large, non-breakable disc, rotating between a non-optical and non-magnetic receptor. A rugged cast aluminum housing and self-aligning hardened steel shaft provide mechanical ruggedness required for industrial applications.

Repair or Replacement

Service or repair of pulse generators requires special test equipment and trained personnel. It is recommended that broken or otherwise inoperative pulse generators be returned to Avtron for repair. Units not under the original equipment warranty will be restored for a nominal charge on a short turn-around basis. It is recommended that units which are badly damaged or become inoperative after years of service be replaced by re-manufactured units (subject to availability) or new units. Re-manufactured units are restored to like new condition and carry the same one year warranty as new units, at a lower replacement cost.

Specifications

Operating Power(each pickup).....12 to 15 VDC at approx. 30 ma.

Output Signal.....Connections by "MS" connector
 Pulses per revolution.....1 thru 22
 Wave Shape.....Square Wave
 Voltage Swing (No load).....1 to 11 - 14 VDC

Frequency.....0 to 1100 Hz max. at 3000 rpm

Output Impedance.....HIGH:Source 10 ma max. thru 100 Ohms to 12-15VDC
 LOW:Sink 10 ma max.

Output Protection.....Output is short circuit protected to common

Speed Range.....0 to 3000 rpm(22 ppr max.)

Operating Temperature.....32° to 160° F ambient

Weight.....13 lbs.

Mechanical
 Starting Torque.....4 oz. - in.(typ.)
 Shaft Inertia.....0.1 oz. - in. - sec²
 Acceleration(max.).....5,000 rpm/sec.
 Coupling Recommended.....Zero Backlash, Thomas DBZ or equivalent

