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Encoder Instructions

K627

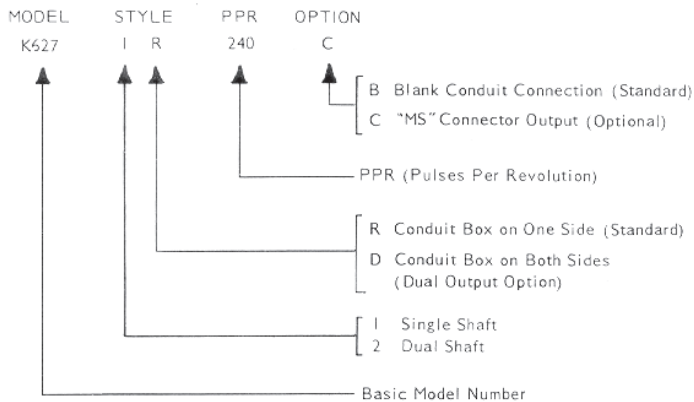
INACTIVE DESIGN
 Replaced by Model **M628A**

DESCRIPTION

The K627 is a heavy mill-duty reluctance-type rotary pulse generator for use with Avtron digital measurement systems.

This unit requires no external operating power. A magnetic transducer generates a signal pulse each time a tooth of a rotating steel gear passes its magnetic tip. Coupling the pulse generator to a machine shaft then produces an output frequency directly proportional to the rotational speed of the shaft.

Various K627 options and how they are shown in the K627 part number are shown below:



REPAIR OR REPLACEMENT

Service or repair of Avtron pulse generators requires special alignment and 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

OUTPUT WAVEFORM.....	SINE WAVE
OUTPUT FREQUENCY.....	50Hz to 12KHz
OUTPUT LEVEL.....	0.5V P-P MIN. to 10 V P-P MAX. (TYPICAL) INTO 2.2K SERIES and .01 Mfd SHUNT LOAD
OUTPUT IMPEDANCE.....	600 OHMS
OUTPUT CONNECTIONS.....	8" LEADS, CONDUIT BOX ENTRY (MS CONNECTOR OPTIONAL)
PULSES PER REVOLUTION...	60,100,160,240,320,360 (Standard)
OPERATING SPEED.....	50 - 5000 RPM
OPERATING TEMP RANGE....	-20° TO + 85° C
STARTING TORQUE.....	3 OZ. -IN
SHAFT INERTIA.....	0.373 OZ. -IN-SEC
ACCELERATION, MAXIMUM...	10,000 RPM/SEC.
SHAFT LOADING, MAXIMUM...	0 LBS. AXIAL, 5 LBS RADIAL
COUPLING RECOMMENDED...	ZERO BACKLASH TYPE, THOMAS DBZ OR EQUAL
SHAFT EXTENSION.....	SINGLE, STANDARD DUAL, OPTIONAL
WEIGHT.....	13.5 LBS. SINGLE OUTPUT 14.5 LBS. DUAL OUTPUT

