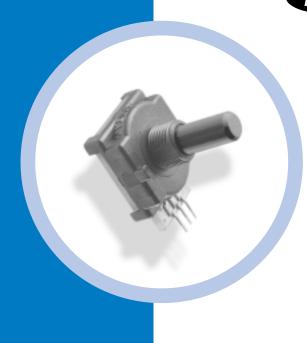
Commercial Mechanical Encoders

Model 510



FEATURES:

Cost Effective

- Eliminates A/D converters

High Resolution

- Up to 36 positions

Stability

- Operating range of -40C to +105C

Variability

- Horizontal and vertical mounting

Electrical

OUTPUT:

2-bit grey code, channel L leads channel R by 90 deg electrically in the CW direction. 4-bit grey code, absolute electrical position output.

CLOSED CIRCUIT RESISTANCE:

5 ohms maximum

OPEN CIRCUIT RESISTANCE:

100K ohm minimum

CONTA CT RATING:

Resistance load 250mA
@ 28Vdc maximum

SWITCHING LOADS:

1.5m A @ 115 Vac

150 mA @ 14 Vdc

BOUNCE (Jitter): 5 ms/cycle @ 15 RPM

DIELE CTRIC WITHSTANDING VOLTAGE:

1000 Vac @ sea level

ELECTRICAL TRAVEL:

Continuous

OPERATING SPEED:

50 RPM maximum

Mechanical

ROTATIONAL TORQUE: 3-5 oz. in. (2.16 - 3.60 Ncm)

MECHANICAL TRAVEL:

Continuous

PANEL MOUNTING TORQUE:

7 lbs. in. (1.13Nm) maximum

SHAFT LOAD FORCE:

10 lbs. in. (1.13Nm) maximum

SHAFT PULL FORCE:

10 lbs. maximum

TERMINALS:

Standard PC style, 3 terminals on 0.100" (2.54mm) grid-in-line perpendicular or parallel to shaft. Solder hook available on 0.200" grid.

MOLDED CONSTRUCTION:

Molding compound used for housing/bushing and shaft has a UL94V-2 rating

ROTATIONAL LIFE:

100,000 detented cycles at rated load typical.

(1 cycle = 720 de grees)

Operational

TEMPERATURE RANGE:

Operating temperature: -40 degrees C to +105 degrees C

Storage temperature: -55 degrees C to +120 degrees C

HUMIDITY:

Per MIL-STD. 202, Method106C: Insulation resistance shall be 1 Megohm maximum of a relative humidity 90% @ 25 degrees C

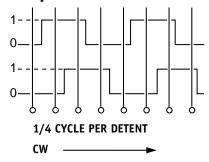
SHOCK:

Per MIL-STD. 202, Method 213, Test Condition G, consisting of 18 impacts shock at 50 G's for duration of 11ms

VIBRATION:

Per MIL-STD. 202, Method 214, Test Procedure A

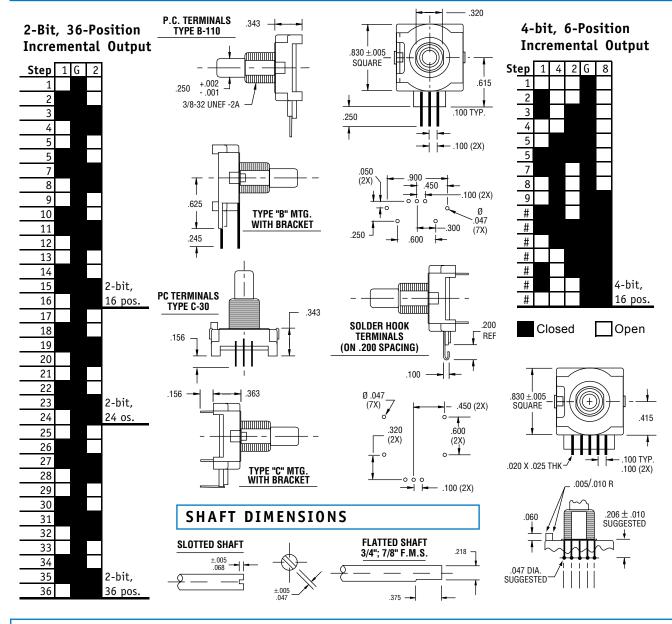
Output Table



ISO 9001 CERTIFIED

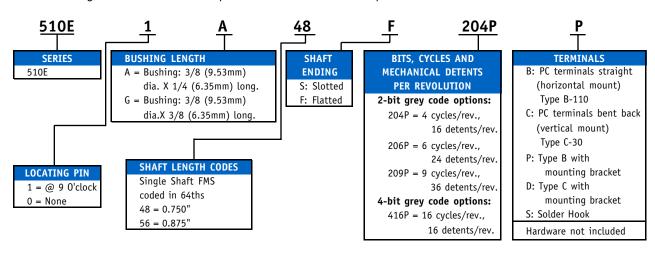


DIMENSIONS for Series 510



ORDERING INFORMATION

When ordering, indicate the desired options as shown in this example:



To order or for custom applications, call 800-874-1874

