

Encoders

510 Series, Mechanical

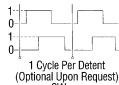
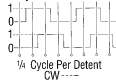


The 510 Series controls are manually operated, rotary, mechanical encoders that provide a two-bit gray code for relative reference applications and a four-bit gray code for absolute electrical reference applications. The "L" channel leads the "R" channel by 90° electrically in the CW position. It features continuous electrical travel and has a rotational life of more than 100,000 shaft revolutions with a positive detent feel.

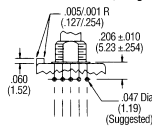
This series is small-sized, 21,08 mm² by 8,71 mm deep (0.83 in² x 0.343 in) long and commonly used in limited-space, panel-mounted applications where the need for costly, front-panel displays can be completely eliminated. Digital gray-code outputs eliminate the need for A/D converters.

- Bushing:** 9,52 mm (0.375 in) Ø x 6,35 mm (0.25 in) L
- Shaft:** Flatted, 6,35 mm (0.25 in) Ø x 19,05 mm (0.75 in) L
- Body:** 21,08 mm (0.830 in) square
- Operating temperature:** -40 °C to 105 °C (-40 °F to 221 °F)
- Rotational cycles:** 100,000

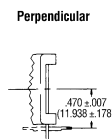
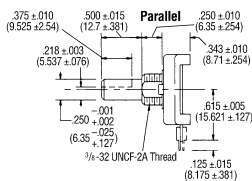
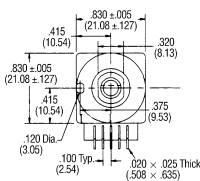
Output Table



Control Dimensions, Single Control



Footprint Viewed from Top of Control

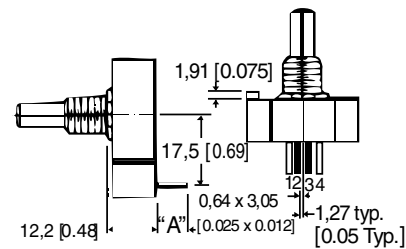


600 Series, Optical



The 600 Series controls are manually operated, rotary, optical encoders that output two square waves in quadrature at a rate of 128 pulse per channel per revolution as a standard with other resolutions down to 60 pulses available. The outputs are TTL compatible. PC terminals or cable leads are available.

- Pulses per revolution:** 128
- Supply voltage:** 5.0 V
- Body:** 34,93 mm (1.375 in) Ø
- Shaft:** 6.35 mm [0.25 in] dia by 22.23 mm [0.875] long
- Bushing:** 9,52 mm [0.375 in] dia by 9,52 mm [0.375 in] long
- Operating temperature:** -40 °C to 65 °C (-40 °F to 149 °F)
- Revolutions:** 10 million



OPTIONS

Series 600

TERMINATION	REFERENCE
177,8 mm (7.0 in) long cable	600EN-128-CBL
PC terminals exiting side	600EN-128-B66
PC terminals exiting rear	600EN-128-C24
177,8 mm (7.0 in) long cable with connector	600EN-128-CN1

OPTIONS

Vertical Mount, PC Terminals/bent back

GREY CODE OPTIONS

- 2 bit/4 cycles
- 2 bit/6 cycles
- 2 bit/9 cycles
- 4 bit/16 cycles

REFERENCE

- 510E1A48F204PC
- 510E1A48F206PC
- 510E1A48F209PC
- 510E1A48F416PC

Horizontal Mount, PC Terminals/straight

GREY CODE OPTIONS

- 2 bit/4 cycles
- 2 bit/6 cycles
- 2 bit/9 cycles
- 4 bit/16 cycles

REFERENCE

- 510E1A48F204PB
- 510E1A48F206PB
- 510E1A48F209PB
- 510E1A48F416PB

Brackets

MOUNTING DIRECTION

- Vertical
- Horizontal

REFERENCE

- 510VBKT
- 510HBKT