Encoders

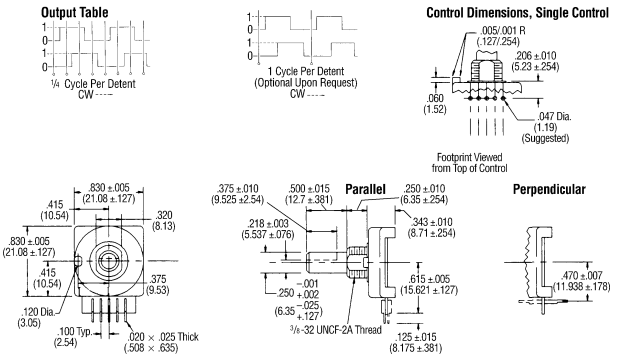
510 Series, Mechanical



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



OPTIONS

Vertical Mount, PC Terminals/bent back

GREY CODE OPTIONS	REFERENCE
2 bit/4 cycles	510E1A48F204PC
2 bit/6 cycles	510E1A48F206PC
2 bit/9 cycles	510E1A48F209PC
4 bit/16 cycles	510E1A48F416PC

Horizontal Mount, PC Terminals/straight

GREY CODE OPTIONS	REFERENCE
2 bit/4 cycles	510E1A48F204PB
2 bit/6 cycles	510E1A48F206PB
2 bit/9 cycles	510E1A48F209PB
4 bit/16 cycles	510E1A48F416PB

Brackets

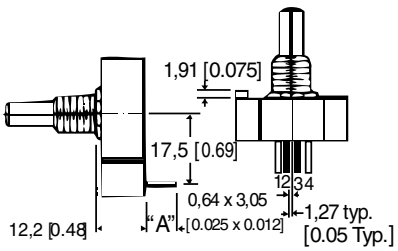
MOUNTING DIRECTION	REFERENCE
Vertical	510VBKT
Horizontal	510HBKT

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