

CYCLE WIDTH = 42.1875 ARC-MINUTES = 360 ANGULAR DEG./512 PPR
 ERROR: 0.1 ARC-MIN TYPICAL,
 0.6 ARC-MIN MAXIMUM
 (DOES NOT VARY WITH VELOCITY OR TEMPERATURE)

A & B PULSE WIDTHS = 21.1 ARC-MINUTES
 ERROR: 0.8 ARC-MIN TYPICAL,
 3.5 ARC-MIN MAXIMUM
 (VARIES WITH VELOCITY AND TEMPERATURE)

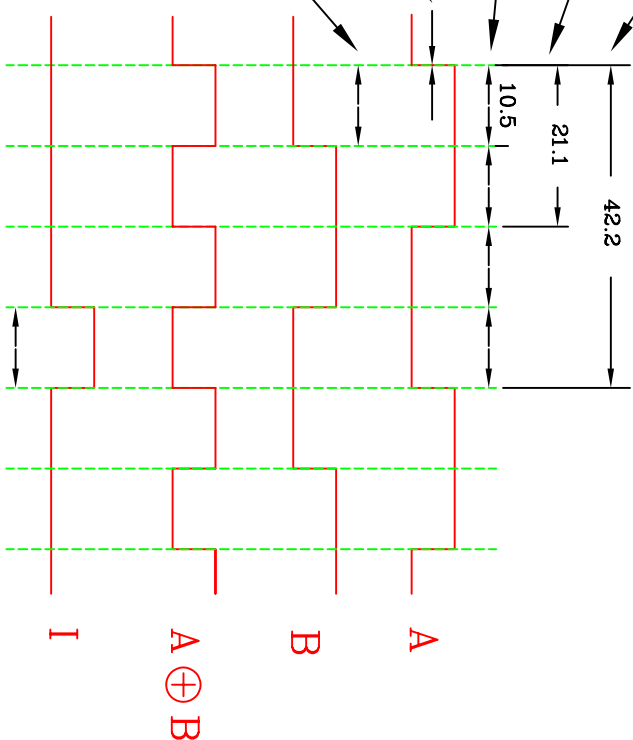
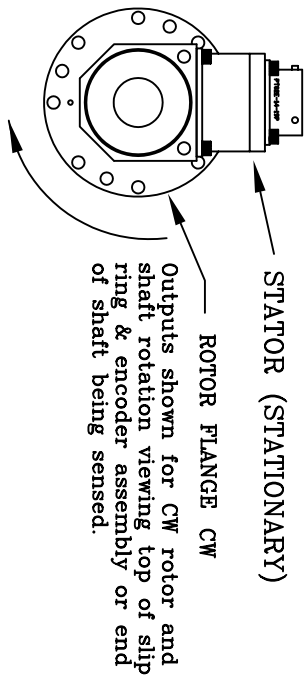
TRANSITION WIDTHS (BETWEEN A & B) = 10.55 ARC-MINUTES
 ERROR: 0.6 ARC-MIN TYPICAL,
 3.5 ARC-MIN MAXIMUM
 (VARIES WITH VELOCITY AND TEMPERATURE)

CUMULATIVE ANGULAR POSITION ERROR = 15 ARC-MINUTES MAXIMUM
 This is the worst deviation between the actual angular position of the shaft being sensed and the position of the encoder pulses. For example, if we say the shaft is at 0 deg. at the rising edge of a pulse on channel A, then the rising edge of any other pulse on channel A will indicate the true shaft position within 15 arc-minutes. This does not vary with velocity or temperature.

PHASE BETWEEN A & B = 10.55 ARC-MINUTES
 (BETWEEN BOTH RISING EDGES OR BOTH FALLING EDGES)
 ERROR: 0.3 ARC-MIN TYPICAL,
 1.7 ARC-MIN MAXIMUM
 (DOES NOT VARY WITH VELOCITY OR TEMPERATURE)

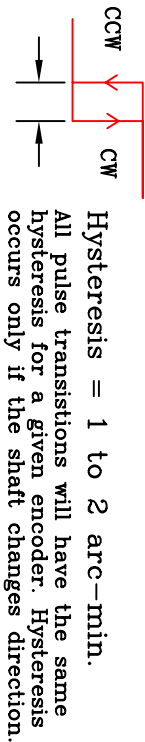
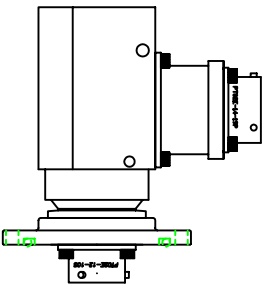
INDEX PULSE WIDTH = 10.55 ARC-MINUTES
 ERROR: 0.6 ARC-MIN TYPICAL,
 3.5 ARC-MIN MAXIMUM
 (VARIES WITH VELOCITY AND TEMPERATURE)

Note: For CCW rotation channel B leads channel A and the index pulse rises exactly when A falls and falls exactly when B rises.



512 PPR ENCODER

SR/ERT SERIES



MICHIGAN SCIENTIFIC CORP.
 (C337043A REV 2-12-00, KDL)