

TECHNICAL NOTES: MOUNTING AND INSTALLATION



# Alignment of the ChipEncoder Series Product

TN-1104 | REV 151006



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Optimal alignment of the CE300 (7mm x 11mm package) or the CE-40GC (6mm x 6mm package) is achieved through adherence to MicroE's published interface drawings and can be verified and fine-tuned using the Sin+ and IW+ signals. Sin+ is available on pad 14 of the CE300 and pad 3 of the CE40-GC. It is a sinusoidal function that rides on a 1.7V offset and varies with position. IW+ is found on pad 24 of the CE300 and pad 16 of the CE-40GC. It is an active-high TTL pulse that occurs each time the index mark on the scale is passed.

**Both signals must be present** and within the following specification limits in order to ensure proper encoder function.

Sin+ = 1.90V peak to peak  $\pm 25\%$

IW+ = 5V square pulse, 40 $\mu$ m wide  $\pm 25\%$

