



Mx100/Mx200 Configuring Nikon Encoders



Configuring Nikon Encoders for the Metlogix Mx100/Mx200

Nikon encoders output an analog signal on an .008mm pitch.

The analog interface of the MetLogix Readouts is specific to this Nikon signal and thus the Nikon encoder type must be selected in the *Setup-->Axes* settings screen.

Interpolation and resolution must also be configured in this same settings screen according to the formula below:

Formula for Deriving Interpolation and Resolution

Encoder Resolution = Encoder Pitch / 4 / Interpolation Factor

Sample Encoder Resolutions

- ✓ .0004mm = .008 (encoder pitch in mm) / 4 (counts/signal cross) / 5 (times interpolated)
- ✓ .0002mm = .008 (encoder pitch in mm) / 4 (counts/signal cross) / 10 (times interpolated)
- ✓ .000125mm = .008 (encoder pitch in mm) / 4 (counts/signal cross) / 16 (times interpolated)



Help and Resources

Please visit the support section at www.metlogix.com for access to MetLogix product documentation.

Watch tutorial videos for popular Mx functions at <http://www.youtube.com/metlogix>

Join the discussion on Facebook, search "MetLogix".

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