

Encoder screenset for Mach3:

Below is a screenshot of the encoder screenset for Mach3. The software DRO's (shown) and the encoder DRO's (on settings page) are monitored and in the event that the two are out of synchronization with one another, The machine is halted in "feedhold", an LED next to that axis flashes and a sonalert if used sounds an audible alarm. The "Sync" key to the left of the offending axis may be pressed and this will update the software DRO in relation to the encoder DRO, and ultimately machine position, clearing the fault. Jogging is not affected by a discrepancy/fault and allows the user to reposition machine if necessary before clearing fault. The max allowable error is entered on the settings page as well.

Accompanying this screenset is one special screen for manual operation which basically consists of three large DRO's that read encoder data while Mach software is in reset or for those who wish to use the Encoder Interface in conjunction with Mach as a simple DRO for all types of measuring applications and data collection.

Essentially, A PC running Mach, the Encoder Interface and up to 4 encoders will produce a 4 axis DRO for all types of machines. Plus, 4 software controlled relay outputs.

The possibilities and uses of the Encoder Interface are virtually unlimited. Any input device that operates on 5vdc and has a return signal of at least 2.5 vdc may be used.

