

Effect of Mechanical Jitter on Accu-Coders™

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Accu-Coders™ will tell the direction of rotation with what is called quadrature output channels. This means is that there are two distinct output channels that are out of phase electrically by 90 degrees. One channel switches slightly before the other channel does.

By using what is called a quadrature counter, both channels are looked at the same time. The counter detects what channel is switching first and this tells the counter to either count up or to count down.

If you are using quadrature inputs to your computer and the encoder has quadrature outputs, you should have no problem with jitter. As the shaft vibrates back and forth, the counter will alternatively count up and count down leaving you with a net result of zero counts from its position.

If you have additional questions please contact EPC Customer Service at 800-366-5412 or email sales@encoder.com.

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