

With this option the encoder generates pulses as long as it continues to rotate in the forward direction. If the direction reverses then pulse output ceases until the encoder returns to the forward direction and to its position before reversing. If the reverse direction exceeds one revolution then the encoder resets and the reverse direction becomes the new forward direction.

The initial forward direction is the direction of rotation when power is first applied.

For example, if the initial forward direction is clockwise rotation of the shaft then the encoder always generates pulses when rotating clockwise. If the shaft rotation changes to counter-clockwise, then pulse output stops until the shaft begins rotating clockwise again and the shaft returns to the point it originally reversed direction. If counter-clockwise rotation exceeds 1 revolution then counter-clockwise become the new forward direction.

The intent is to always generate the same number of pulses per revolution regardless of whether the encoder shaft reverses direction. This also eliminates extraneous pulses that might occur if rotation stops on a pulse boundary and vibration in the system causes it to oscillate back and forth over that boundary. Encoders without this option would generate pulses even though the encoder shaft is not rotating.

Rev	Description	Date	This information is approved only if it is stamped "APPROVED", signed, and dated.	Tolerances	M233 option: Encoder with Enhanced Anti-Jitter - 1 revolution hysteresis		
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