

# MS332 Synchronous Controller



## Features:

- Compatible with all variable-speed drives
- Keypad/display menus and features
- Setup, calibration and diagnostic utilities
- Special features including pulse per index measurement and averaging
- Master, ratio-follower, and index-follower modes
- Multiple set-points
- Switch-input functions
- NPN-output functions
- Serial Modbus communications



## Description

The MS332 is a powerful and versatile tool for building numerous closed-loop processes. Closed-loop control capabilities include speed and phase control, electronic line shaft/gearing, event synchronization, and bi-directional control. The MS332 accepts quadrature encoder signals and almost any type of index/event sensor signal. The controller also provides the encoder/sensor power, which makes the MS332 ideal for new or existing systems. The MS332 supplies an isolated  $0 \pm 10$  VDC speed reference signal to the drive, making it compatible with virtually any variable speed drive (AC, DC, or servo).

## Operating Modes

### Index Follower

- The MS332 automatically phases the feedback and lead event pulses to precisely synchronize events.
- Dissimilar encoders and shaft speeds work together without error.
- Feedback, lead, and event-pulse signals input to the MS332.

- Event pulses are commonly generated by proximity and photoelectric sensors, although other sources may be used.
- The follower phase set-point may be entered or determined by advancing/retarding the set-point on-the-fly.

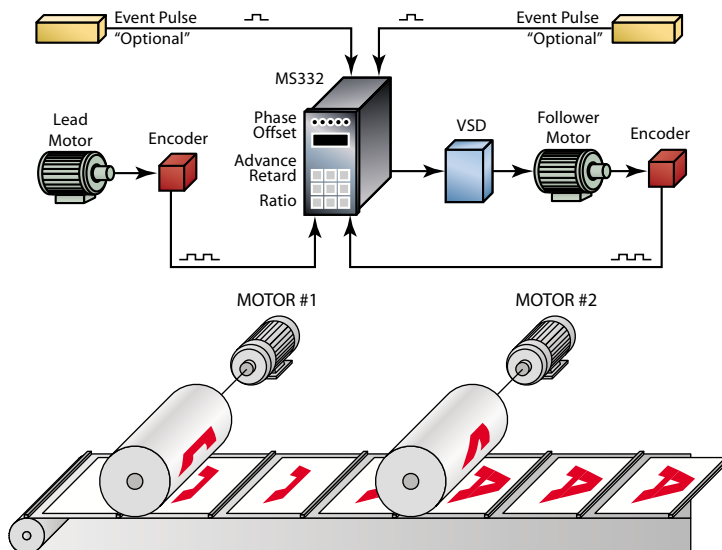
### Ratio Follower

- The MS332 achieves true electronic gearing by precisely setting follower ratio to master speed, resulting in zero cumulative error.
- Dissimilar encoders and shaft speeds work together without error.
- Feedback and lead signals input to the MS332.
- The user enters the follower/master speed ratio and may change it on-the-fly.

### Master

- The MS332 maintains the desired set-point speed.
- Feedback signal inputs to the MS332.
- The user may easily change the set point by entering the desired new value into the front panel keypad.

## Application Diagrams



## Gordy's Sensors

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