

Motion 4000MRL™

A compact solution for limited space and unlimited performance

The MCE **Motion 4000MRL** traction elevator package is the ideal solution when time and space are limited and your bottom line depends on on-time delivery, easy installation, and solid reliability — time after time. The 4000MRL provides service to 32 floors, speeds to 400 feet per minute*, and group control of up to 8 cars. Motion 4000MRL makes the jobs of installers, adjusters, and maintenance personnel as straightforward as possible, stressing minimal hardware requirements, simple adjustment, and enduring reliability.

Installers

- Full-featured, Motion 4000 elevator control in a very compact enclosure (remote drive, with serial interface, serial CAN linkage between circuit boards, car components, and hall calls).
- Only final limit switches are required. Slowdown and ETS switches are eliminated.
- No door zone magnets required.
- Hall call fixtures are connected using lightweight, easily connected cables providing signal communication and fixture power.
- Absolute position/speed feedback uses a lightweight 1/2-inch wide encoded tape. Easy to hang; absolute position at all times — even under power loss.
- Traveler and hoistway cable wire counts reduced to 7 to 12 conductors. Easy to hang and requiring less compensation.
- Universal I/O boards for field connections accept 24 to 120 volt inputs, AC or DC. Standard 24, 48, and 110 volt compatibility with no board changes.

Adjusters

- Factory pre-adjusted per job requirements.
- Easy, hand-held entry device lets you make a single, inspection-speed run through the hoistway, stopping and setting floor levels as you go. Hand-held device connects at the car or in the machine room.
- Selectable, pre-determined performance curves or create your own.
- Simple parameter entry using the basic (LCD display/button entry) or optional (color/touchscreen) entry devices.

Maintenance

- Recommended “spares stock” is two boards; one universal I/O, one hall board.
- Plug the hand-held entry device into any controller or car CAN Bus and diagnose the entire system.

Benefits

- Flexible component location for small machine room and machine roomless jobs
- Absolute position/distance feedback
- Up to 400 fpm (2.0 m/s)*, 32 stops, simplex/duplex/groups to 8 cars
- Front and rear openings (up to 64)
- No leveling magnets, slowdown, or emergency terminal switches needed
- Simple installation, adjustment, and maintenance
- Minimal traveler and hoistway cable wire counts; minimal compensation requirement
- Universal I/O with electrical protection
- Easy setup and diagnostics

* 500 fpm is possible, consult MCE for more information



www.mceinc.com

800.444.7442
916.463.9200

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The leader in non-proprietary controllers, technical services and repair solutions for elevator modernization.

Motion 4000MRL specifications

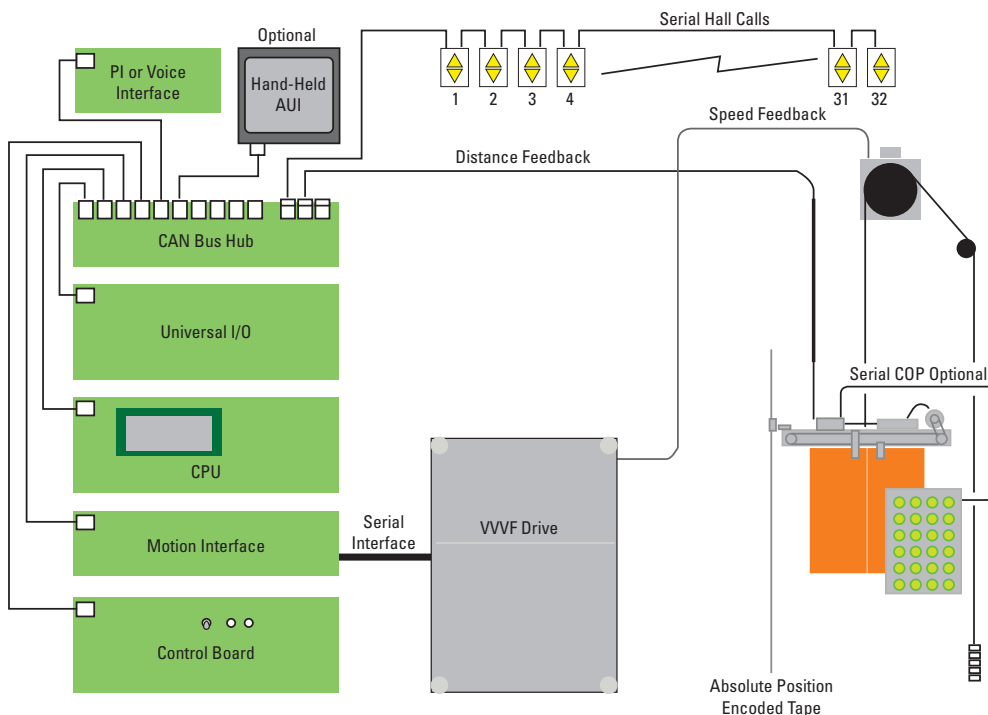
Maximum car speed	400 fpm, 2.0 mps
Configuration	Simplex, duplex, 8 car maximum group
Stops	Up to 32 with 64 openings
Drive type	AC flux vector or DC
Motor control	Closed loop/velocity feedback, PMAC/Induction
Landing systems	Magnetically encoded tape, 1 mm resolution
System access	Hand-held basic or advanced user interface
Monitoring	iMonitor, IDS LiftNet
Report generation	iReport
Lobby display	iLobby
Environment	32–104° F, 0–40° C, relative humidity non-condensing up to 95%; harsh environment rugged service available (NEMA 4, 4X, 12)
Standard enclosures	Enclosure size may vary per specific application

Features

- Serial hall call (optional)
- Serial COP (optional)
- Full distance feedback
- Universal I/O (24 to 120V AC or DC)
- DC, PMAC or AC induction machine compatible
- Serial P/I or voice annunciation interface
- iMonitor, iReport, iLobby, or IDS ready (monitoring, reporting, lobby display)

Compliance

- ASME A17.1-2004/CSA B44-04
- CSA B44.1-04/ASME A17.5-2004
- BS EN 81
- AS 1735
- EN 12015 and 12016



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