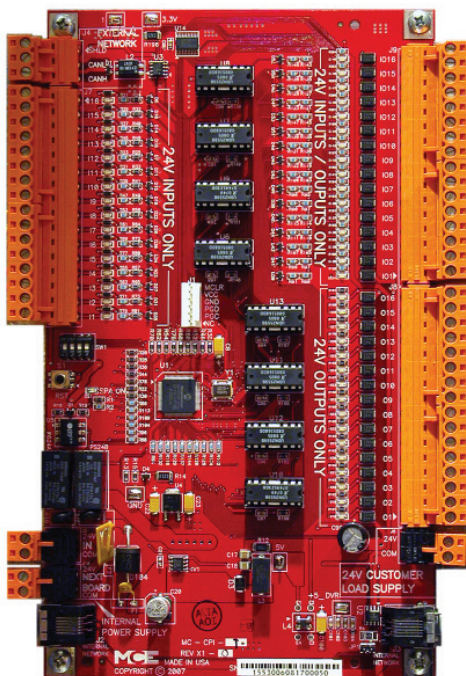# Motion Serial Car Operating Panel

Serial Car Calls Minimize Traveler Count

The **MCE Motion 2000 or 4000 Serial Car Panel Interface** can reduce your traveling cable conductor count by an average of 60%. High count travelers are heavy, expensive and require time to ring-through and verify each connection. Our car panel interface (CPI) speeds installation and minimizes the risk of connection mistakes.
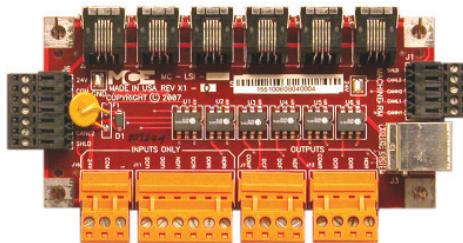
The MC-CPI board is designed to install inside your car operating panel. The buttons, switches, and indicators you would normally bring to the car top and up the traveler are instead connected to the CPI board inside the car operating panel. From the CPI board, a single, telephone-jack style cable connects to the LSI board in the car top box. From there, a single, shielded, twisted pair CAN Bus cable runs up the traveler to the controller.

Applications

- Modernization or new construction
- MCE Motion 2000 & 4000 controllers
- Industry standard 24 VDC fixtures

Benefits

- Reduces cost along with the number of wires in the traveling cable
- Saves time during installation
- Reduces wiring errors
- Saves time during service and troubleshooting
- LSI board allows in car and car top connection for optional hand-held system configuration unit
- Dedicated LEDs for each discrete connection to LSI and Universal I/O boards in the cartop provide immediate status indication
- MC-CPI boards in larger car operating panels link together and still use just one CAN cable to the cartop

MC-CPI board

The Motion cartop box supports two serial control panel connections. Landing system, and some door operator connections are also serialized in the cartop box. Cartop to elevator control connections are serial as well, so the bulk of traveler and hoistway cabling is further reduced.

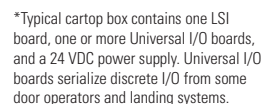The LSI board supports up to two car operating panels through CAN plug-ins

Serial from COP to car top to controller

MOTION 2000 or 4000

CAR OPERATING PANEL

NO SMOKING

↓ 4

ELEV. NO. 3

FIREFIGHTERS' OPERATION

CERTIFICATE OF INSPECTION ON FILE IN BUILDING MANAGER'S OFFICE

CAPACITY 2500 LBS.

Non-serial signals

TRAVELER

Serial

Discrete

CPI BOARD

Serial

Serial

Discrete

*Door operator / Landing system

*CARTOP BOX

CPI BOARD DIMENSIONS

8.775

9.225

#8 x 32 mounting hardware included

4.925
5.375

0.225

0.225

*Typical cartop box contains one LSI board, one or more Universal I/O boards, and a 24 VDC power supply. Universal I/O boards serialize discrete I/O from some door operators and landing systems.

Serial CPI board specifications

- Board I/O can be configured as input, output, or call input/output
- 16 I/O connections per board
- All fixtures 24 VDC
- Outputs: 24V lamps or LEDs
- Socketed, easily replaceable drivers protect the board from damage due to out-of-range inputs
- Pluggable connections for COP buttons and switches
- Simple, CAN connection from car panel to cartop
- MCE-tested for dependable performance

Serialized Signal Types

- Car calls
- Car lanterns and chimes
- Position indicators
- Fire Service Phase II
- Independent service
- Lights, buzzers
- Solid state door signals
- Some landing system signals

Typical Car Top Box Dimensions

- 12" A x 8" B x 4" C (305 x 203 x 102 mm), or
- 18" A x 15" B x 4" C (457 x 381 x 102 mm)
- Enclosure size used determined by number of inputs and outputs required
- Mounting orientation per user

B

A

C

MCE
Motion Control Engineering®
A Kinetek Company®

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