



Infinitybox™ J1939 inMOTION Cell



Product Description:

The J1939 inMOTION Motor Controller gives you a modular and flexible power distribution unit, designed to control outputs that need to change direction. This includes valve solenoids, linear actuators, window motors and lock solenoids. The polarity control for these devices is built directly into the inMOTION Cell.

Additionally, inMOTION is a smart cell. It learns the nominal current flow for each output and stores this in permanent memory. If the current flow to the load exceeds its learned value, it shuts off the output. This offers great flexibility in limiting travel of moving actuators by eliminating the need for limit switches.

You simply connect power and ground to the cell, connect the inMOTION outputs, train the cell and connect your J1939 input device. The inMOTION cell is programmed to accept J1939 CAN messages from a variety of sources to turn the outputs on and off. This dramatically simplifies the overall electrical architecture in the vehicle by eliminating a significant amount of the wiring required from the switches.

Contact technical support for a list of standard PGNs and CAN messages to control the inMOTION Motor Controller Cell.

Product Features:

- Simple control from any J1939 switch or touch screen
- 5 H-bridge pairs for polarity reversing
- Internal current sensors for monitoring output load
- Integrated fuses for harness protection
- Standard automotive connectors for simple harnessing
- Enclosures sealed for mounting flexibility
- Output configuration set by CAN messages sent from J1939 input device
- Over-ride buttons in cell for manual control of outputs

Technical Specifications:

- Input voltage range: 6-16.2 VDC
- Maximum number outputs: 5 polarity reversed pairs
- Output node technology: H-Bridge Relay with current monitoring
- Current Capability: 20-amps per pair
- Maximum temperature: 85°C
- Integrated buttons to manually cycle outputs
- Enclosures and connectors sealed to IP67
- Standard Delphi Packard connectors & terminals
- All materials UL 94V0
- J1939 PGN Range: FF00 to FF0F
- J1939 Source Address: 30 Decimal
- J1939 Baudrate: 250 kb/sec
- J1939 Message Size: 8 bytes