



Simplified through innovation

**SMART
harness**



A revolutionary new

approach to the vehicle harness - Introducing the next generation body function control

The smart vehicle harness caters for a wide spectrum of vehicle types, ranging from hi-tech military and public transport vehicles to industrial and earthmoving equipment. This simplistic harness is lightweight, easy to install and maintain, while harness changes or expansions could be done with ease. Maintenance is simplified due to the system's built-in diagnostic capability and standardised components for all vehicle types.

● CAN (communications) network

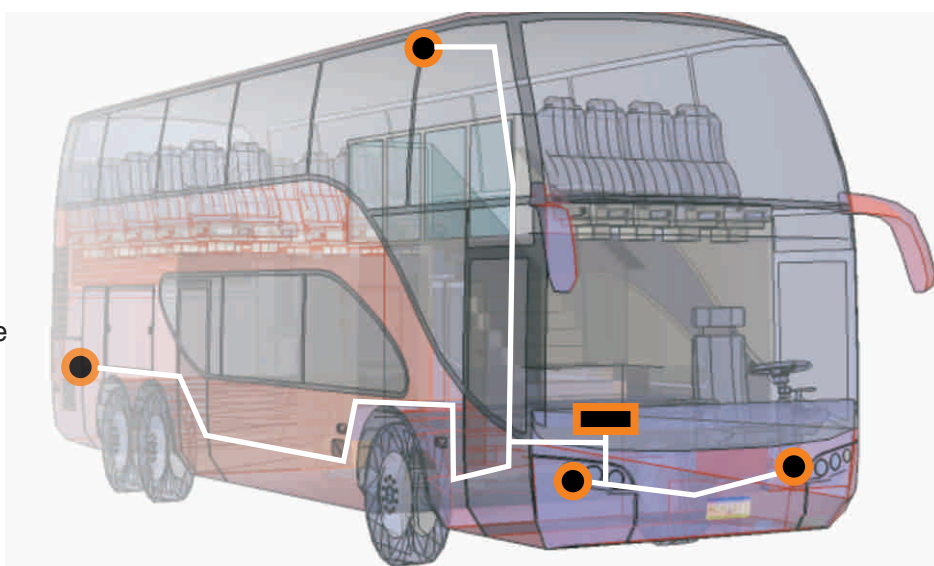
● Centralized Control unit

● Distributed Nodes (at load points)

● Ease of installation/expansion/maintenance

● Significant reduction in electrical wiring

● Considerable reduction in installation time



Providing a simplified harness to address the need for complex vehicle body functions

This intelligent harness system is a four-wire network that consists of a centralized Control unit and a number of Nodes installed at selected positions on the vehicle to serve the various body functions. The network interconnects all Nodes with only two communication wires and a power feed, resulting in a much-simplified, light-weight and short wiring harness.

The Node outputs can be connected to body functions (i.e. break light, indicator, wiper motor, or headlight), keeping the wiring to each function to a minimum length. The control unit will be programmed to link the dash functions to the correct wired Node output(s).

The harness is adaptable to suit any vehicle body type, ranging from hi-tech military and public transport vehicles to industrial and earthmoving equipment. It is expandable by simply adding additional functions to available Node outputs, or by adding an additional Node(s).

A graphical user interface, in the form of a touch screen LCD or a panel of tactile switches, is available to monitor and control the harness and body functions, providing for real-time status feedback to the driver or fleet control centre via an optional GSM communicator.

Smart Harness Benefits

- Ease of installation, maintenance and expansion
- Standardized harness components
- Customization of vehicle body functions
- System real-time diagnostics
- Status feedback to vehicle driver
- Node 'plug-and-play' capable
- Resettable electronic 'fuses'
- Short circuit protection on each Node output
- Current limits configurable per Node output
- Node monitor inputs (Digital and Analogue)
- Lower installer/maintenance skills levels required
- Harness compatible to all vehicle types
- No body function fuse box required
- Lightweight four-wire system
- No timer relays or wiper control circuitry required
- Ease of adapting to new/changed body functions
- Improves road safety by real-time fault reporting
- Additional CAN port i.e. interfacing to J1939
- GSM remote monitoring options
- Optional user interface
- Future enhancements – tyre pressure mon. etc.
- PC-based configuration software



Contact Us


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