



ORSCHELN®

Electronic Shift Control Systems

www.orschelnproducts.com

Orscheln offers a broad range of motion control products and systems for the heavy-duty commercial vehicle marketplace globally.

Orscheln Electronic Selector Control Systems are designed to interface with a broad range of electronic transmissions and TCMs where a shift signal is required. Whether fully Automatic, Automated Manual, Hybrid or Electric Drive, the shift selectors are designed for specific requirements to provide an efficient, intuitive and reliable signal. CAN communication and Analog PCBs can be programmed for exact requirements of vehicle systems.

Orscheln ESCS are designed to work in a broad variety of vehicle applications and driver control station variations in an extensive range of commercial and specialty vehicles.

- Trucks
- Buses
- Construction
- Hybrid
- Military
- Electric Drive

Orscheln supports global customers:

- Dedicated sales, engineering design and applications support team.
- Manufacturing and assembly in North America, UK, India, China and Australia.

Electronics Design – Engineering – Validation – Manufacturing:

Full Design Capability

- Systems Engineering
- PCB Design

Design Verification & Testing

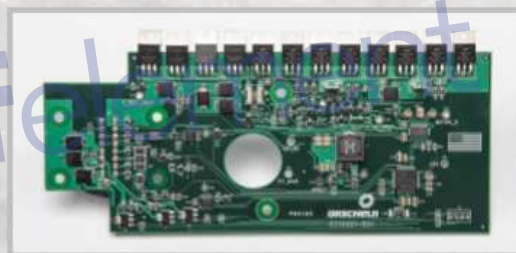
- Environmental
- Temperature
- Vibration

Manufacturing

- Sensor and PCB Assembly
- Electromechanical Assembly

- Software
- Mechanical Design

- Water Ingression
- Corrosion
- EMI



Sensor and PCB Technology:

Orscheln can design a wide variety of configurations to meet customers and users exact requirements. It starts with an understanding of the transmission and powertrain system.

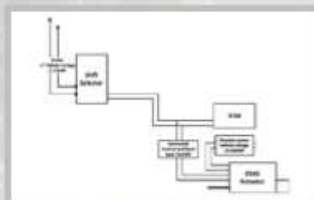
Orscheln works closely with customers to develop sensors and PCB software to meet specific applications.



** Contact your sales team for more information on Electronic Shift Control Systems **

Electronic Shift Actuator Systems

- ESAS is designed for mechanical lever transmissions and gear boxes.
- Applications similar to Allison Transmissions 1000 and 2000
- Provides a shift-by-wire system
- Operates over CAN J1939.
- Utilizes PBSS
- Programmable to communicate with the TCM and provide diagnostic feedback.
- Provides Manual Mode for bump shifting in applications where needed.



PBSS: Push Button Shift Selectors

Push button shift selectors are configured to offer versatile solutions for electronic shift control requirements.

- AMT and Automatic Transmissions
- Based on J1939 CAN communication
- Programmable control and communication PCB
- Bright OLED display
- Button labeling and configuration options
- Easy to install with U-bracket panel mount and harness lengths



Smart Actuators

- Integrated PCB motor controller
- J1939 control protocol
- DC power and digital communications signal wires
- 12 and 24 volt
- 3 inch linear shaft output
- "High-Output" actuator motor design.
- Positioning accuracy of 0.050 inch.
- Direct mount or remote connection available.



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