



**ORSCHELN**®



INSPIRING SOLUTIONS

# SHIFT WIRE™



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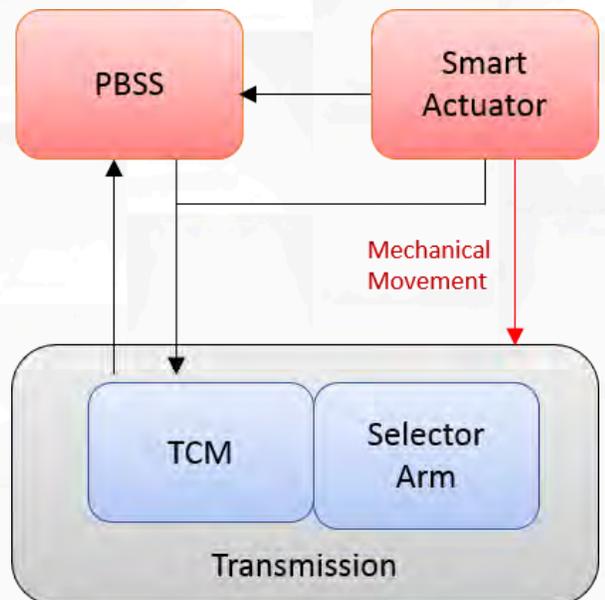
The Orscheln **Shift-X-Wire™** 4.2 system replaces the standard mechanical shift lever and control cable in medium-duty trucks and buses equipped with Allison Transmission® 1000 & 2000 series.

By simplifying vehicle dash design, the Orscheln **Shift-X-Wire™** 4.2 system offers the same footprint as the Allison Transmission® shift selector used in larger series transmissions. It is also suitable for rear-engine vehicles and any application where a smart shift system enhances user experience.

Our system is comprised of a push button shift selector (PBSS) and an electronic actuator, which rotates the selector shaft on Allison Transmission® 1000 & 2000 series transmissions.

The PBSS can also request and display SAE J2012 Diagnostic Trouble Codes from the Allison® transmission

Gear and park pawl selections are made from the PBSS and are communicated over CAN via SAE J1939 to the Allison Transmission® controller. The actuator listens to this communication and moves the selector shaft to the requested position. The shift selector displays the requested and current gear as reported by the transmission controller.



MULTIPLE BENEFITS	OEM CHASSIS	USER/ FLEET	TRANS. MFG./DEALER
No control cable to adjust: actuator factory calibrated	✓	✓	✓
Eliminates vibration & the noise of mechanical system	✓	✓	✓
Offers 6M1 feature PBSS (tap up & tap down)	✓	✓	✓
On C.O.E. (Tilt Cab) no bending shift cable	✓	✓	✓
On rear engine chassis: no long shift cable to route; no backlash	✓	✓	✓
Use common dash for 1k/2k/3k/4k to reduce cost	✓	✓	✓
Multiple selectors can be used for dual control or front-rear applications	✓	✓	✓
Multiple mounting configurations for transfer case & PTO fitted vocational vehicles	✓		✓
Able to request & display SAE J2012 diagnostic trouble codes from the Allison Transmission		✓	✓
Can avoid unnecessary service calls by using diagnostic codes		✓	✓
Easier & less installation time than mechanical shift system "Plug-Play"	✓		
Saves installation time over the competitor system	✓		
Less complexity, less routing constraints and PBSS does not require stiff dash design	✓		
PBSS reduces package space area but offers more available install locations	✓		
Actuator can be attached during the assembly line & can work with column & stalk selector	✓		
Use with Park & No-Park Transmission	✓		
Program mode button for various functions: shift schedule, special need		✓	
PBSS allows optimal use of transmission gears and diagnostics		✓	
Keypad allows Tap Up & Tap Down to access all gears to hold or up/down shift (cannot access with mechanical shifter)		✓	
Consistent shift selector operation for drivers of 1k/2k/3k/4k transmission		✓	



ON-HIGHWAY



OFF-HIGHWAY



MARINE



DEFENSE



AEROSPACE

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