WM-G75 ROCKER PEDAL

Innovation that blends effortlessly into your machine platforms.

Key Features

- Drop-in electronic replacement for hydraulic rocker pedals with patented air-damped return-to-neutral for consistent feel from -40° to +85°C
- Functional-Safety design capable of ISO 13849 PLd rating
- Compact design with low pivot point that mirrors traditional hydraulic pedal geometry for intuitive operator control
- Severe-environment protection: Electronics sealed to IP68S (4 hours at 1 m) and IP69K; mechanical components sealed to IP67 and IP69K
- Harness-only floor penetration with no under-floor protrusions
- Interchangeable PCBAs supporting Analog, PWM, or CAN outputs with redundant Hall-effect sensing
- Rugged construction engineered for 3 million cycles with consistent performance over service life
- Captive, serviceable boot prevents disengagement and supports long-term durability
- Highly configurable architecture with customizable rotation range, force profiles, mounting options, and treadle styles

The WM-G75 brings next-generation control to off-highway equipment by combining the familiar feel of a hydraulic rocker pedal with the reliability and simplicity of a fully electronic system.

Electronic controls offer significant advantages over hydraulic systems as OEMs push toward cleaner packaging, reduced maintenance, and efficient integration with modern vehicle electronics. Elimination of hydraulic valves, lines, and fluid circuits directly beneath the cab reduces routing complexity and hydraulic fluid leak concern inherent to hydraulic architectures. Transition to an electronic control architecture allows for centralization of hydraulic systems, allowing for quicker diagnostics and repair. Electronic controls can easily integrate into modern ECUs which allows for better control of the control signal that is being sent to the end actuator. Together, these advantages empower OEM's to accelerate the development of next-generation, data-driven equipment and unlock new levels of intelligent machine performance.

The WM-G75 is built on a proven WM-830 sensor platform that brings ISO 13849 PLd-capable architecture directly into the machine's electronic network. By leveraging redundant Hall Effect sensing and safety-rated electronics, the control integrates cleanly into modern controller system designs without the compromises associated with legacy hydraulic solutions.

Any system control strategy can be supported with interchangeable sensor modules for PWM, Analog, and CAN signals. This approach reduces validation requirements, simplifies system safety analysis, and accelerates development cycles; All critical benefits for OEMs seeking to standardize controls across machine families.

The WM-G75's configurable platform architecture is engineered to fit easily into a broad range of OEM machine designs. Its mechanical configurability includes rotation ranges from ±9° to ±12°, tunable pedal force profiles, and multiple treadle and pedal mounting options. This allows the pedal to match different cab layouts and desired operator feel without redesigning surrounding systems. This built-in flexibility helps OEMs maintain operator familiarity while tailoring performance to the needs of each machine family.

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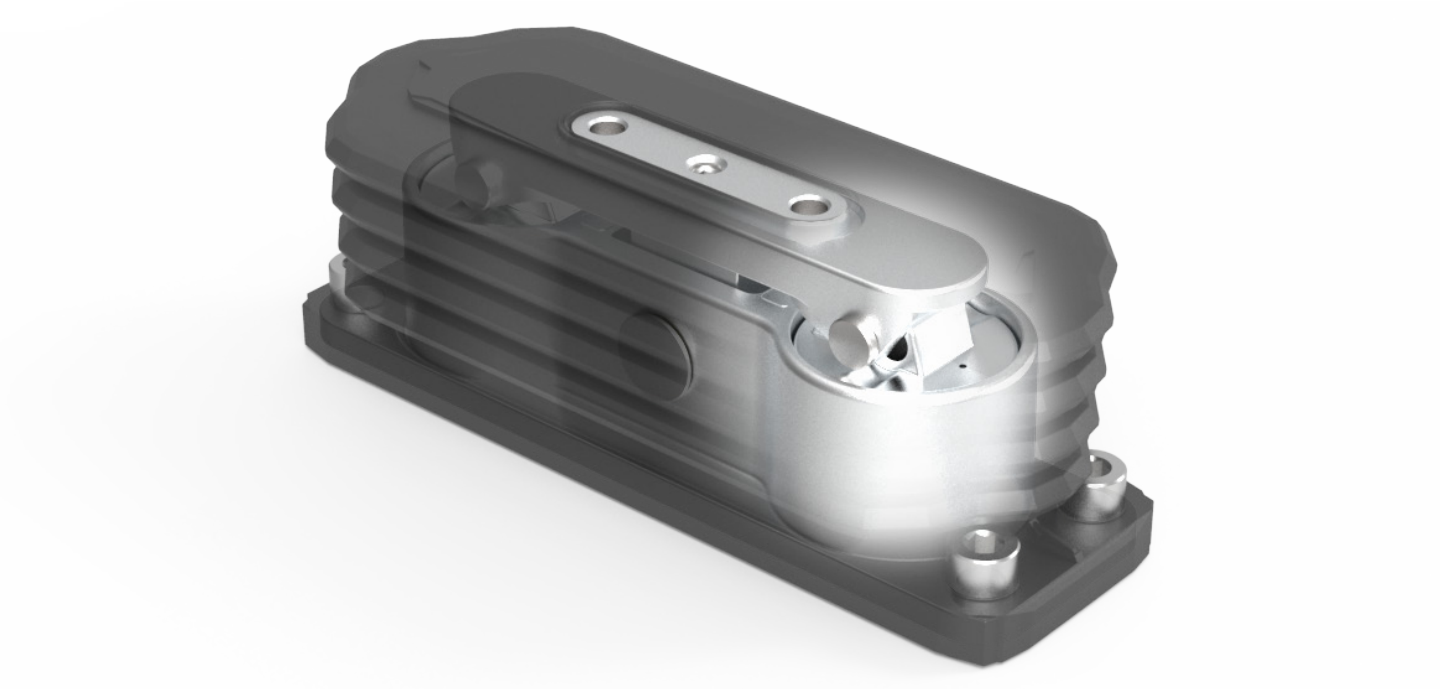

Safety-Ready Platform Architecture

The WM-G75's configurable platform architecture not only streamlines integration across diverse OEM machine designs but also contributes directly to lower maintenance costs over the product's lifecycle.

Its mechanically tunable features allow OEM's to optimize the pedal for each application without creating bespoke variants, reducing the number of unique parts that must be stocked, serviced, and supported.

At the same time, the pedal's rugged construction, 3-million-cycle durability, and independently sealed electronic and mechanical components (IP68S and IP69K) minimize wear-related failures and eliminate maintenance tied to hydraulic systems, such as fluid checks, leak repairs, and drift correction.

By combining broad configurability with severe-environment reliability, the WM-G75 helps OEM's simplify their platform strategy while reducing long-term service demands and operational costs.

The WM-G75 is engineered as a modern safety-ready control platform built to meet the increasing compliance demands of today's off-highway machines. Its electronic architecture is capable of achieving ISO13849 PLd, enabling seamless integration into safety-critical machine systems without the complexity associated with hydraulic components. The platform incorporates redundant Hall effect sensing and supports Analog, PWM, or CAN outputs through interchangeable PCBA's, allowing OEM's to meet safety, diagnostic, and communication requirements across global machine families.

Beyond compliance, this architecture reduces validation burden, shortens development cycles, and supports global standardization which allows OEM's to design once and deploy across multiple variants. The combination of PLd-capable electronics, redundant sensing, and configurable performance tuning ensures both high reliability and predictable behavior throughout the pedal's service life. This makes the WM-G75 not only safety-ready, but a forward-looking foundation for future machine platforms.

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Mechanical Specifications

Life Expectancy	3 million cycles
Pedal Angles	8-12°
Actuation Torque	7.2 Nm ± 1.2 Nm
Full-Travel Torque	14.4 Nm ± 2.4 Nm
Overload Torque	450 Nm
Treadle Mounting	Options M8x1.25 or M10x1.5
Base Mounting	4x M8x1.25

Environmental Specifications

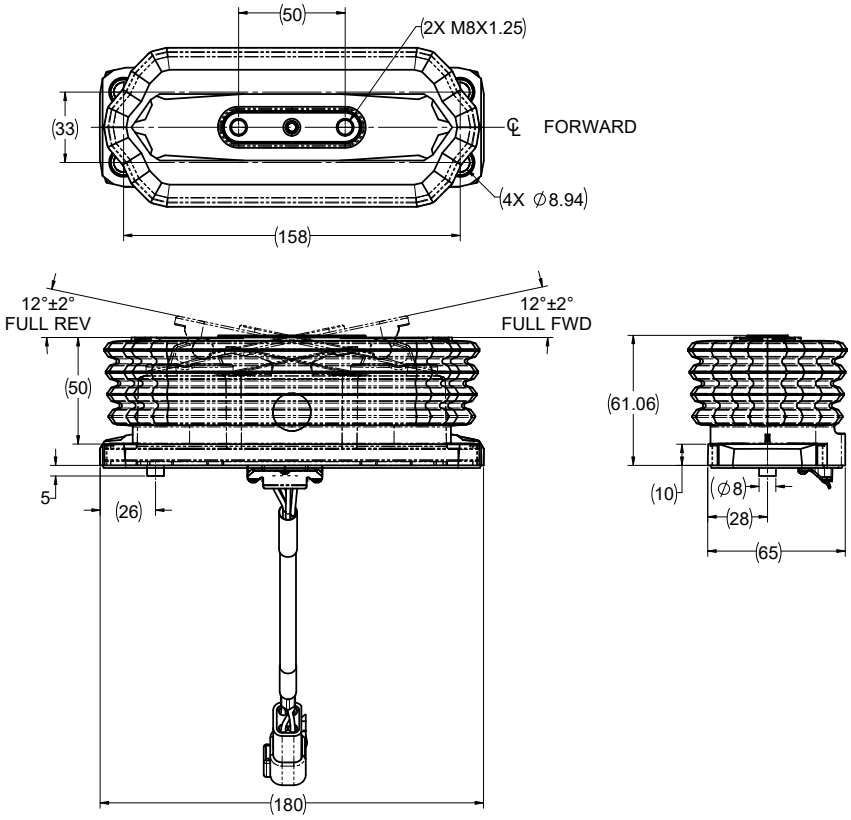
Temperature range	-40 °C to +85 °C
Mechanism IP rating	IP67/IP69K
Sensor IP Rating	IP68S/IP69K

Electrical Specifications

Connector	Deutsch DT06-6P
Sensing Method	Redundant Hall Effect
Signal Output	Analog, CAN Bus, PWM
Harness length	Customizable
Supply Voltage	5V (Analog/PWM) 12V/24V (CAN)

Regulatory Compliance

FMVSS-124	ISO 7637
ISO 20653	ISO 16750
ISO 13849 Capable	ISO 10605
SAE J1113-1	CISPR25
ISO 11452	



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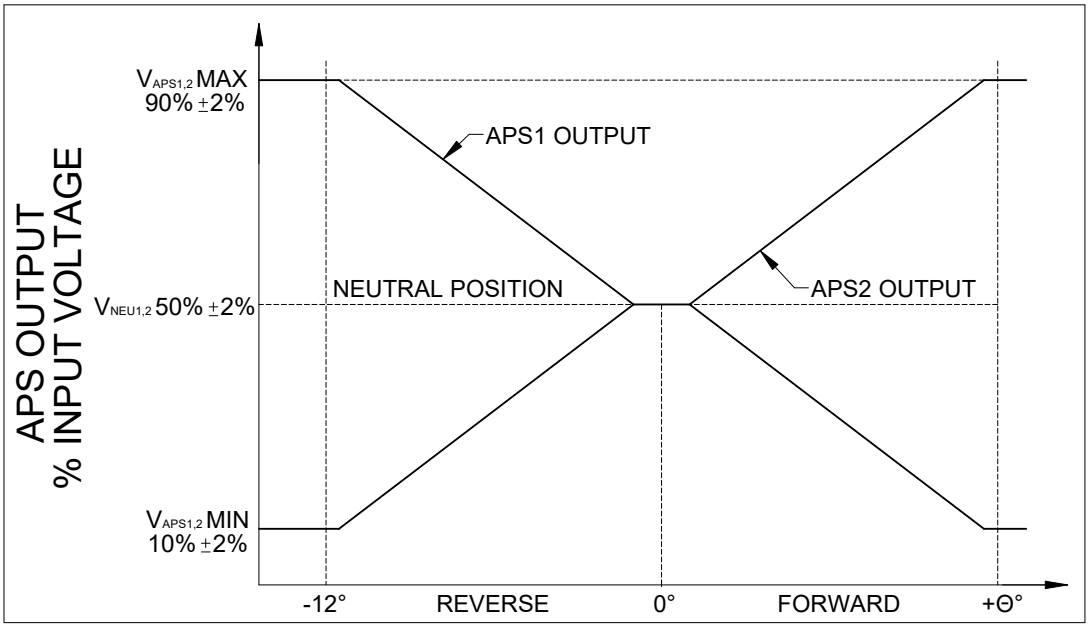
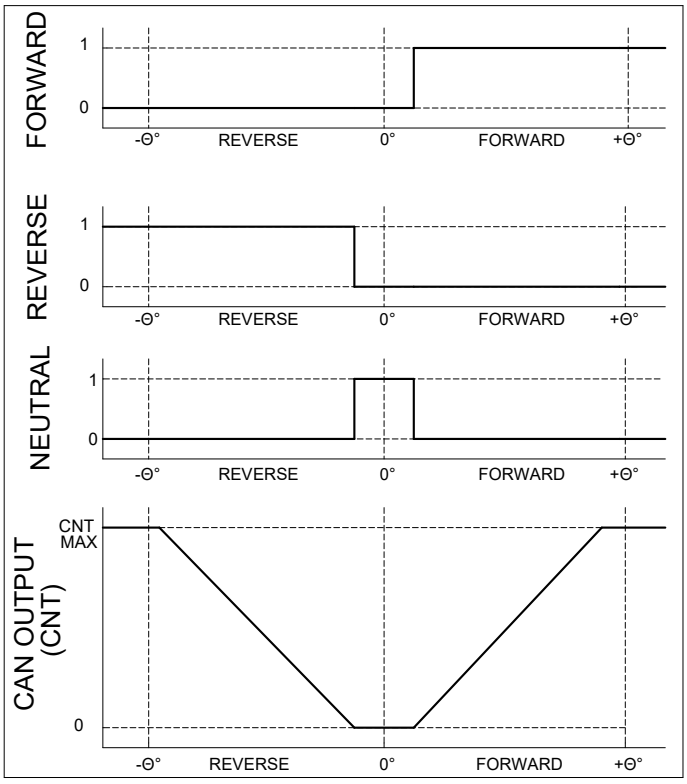
Standard Analog Output



Standard CAN Output



CANbus Message Description

Message Information	
Communication Standard	J1939
Communication Speed	250K, 500K
Parameter Group Number (PGN)	Configurable
Transmission Repition Rate	10 ms, 20 ms, 50 ms
Extended Data Page	0
Data Page	0
Default Priority	3
PDU Format	Configurable
PDU Specific	Configurable
Source Address	Configurable
Data Length	8
Message Signals	
Start Position	**Parameter**
1.1	Neutral Position Status
1.3	Reverse Position Status
1.5	Forward Position Status
1.7	Pedal Position
2	Pedal Position

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