

Door Assist System - Heavy Applications

The Door Assist System (DAS) consists of a self-contained module within each door. Each module contains a hydraulic pump, reservoir, controller, and battery, allowing full operation independent of any other vehicle system. The modular approach simplifies installation and maintenance while increasing flexibility for both internal and external mounting locations.

- Successfully proven on doors weighing up to 3,000 lb or 1,360 kg
- Can be used on level ground or up to 17° slope (30% grade) while providing positive control of door throughout the entire range of motion
- Powered by a 24V battery pack (NiCad or NiMH), which is regulated by an intelligent recharging system, minimizing drain and reliance on vehicle power system
- Operates 20 cycles or greater with no vehicle power*
- Programmable to open or close a door in the range of 5-10 seconds*
- Allows either powered or emergency manual operation of the door by simply rotating a bypass valve from interior or exterior of the vehicle.

* Statistics are dependant on available vehicle geometries. All values given are taken from actual applications.



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CONTROL INTERFACE

- Intelligent controller is environmentally sealed and factory programmable to adapt to the specific application's weight, speed, and size requirements.
- Diagnostic readout is available to convey status of various components and battery charge level.
- Door opening is automatic after holding switch for longer than 2 seconds.*
- Door closure can be set to require continuous depression of switch, or to automatically close after holding switch for longer than 2 seconds.*
- Door is operated from the interior by pressing the centrally mounted switch, allowing operation of both doors from either seat.
- Door is operated from the exterior by pressing the switch box mounted outside the vehicle.

*Functionality can be reprogrammed to meet customer specific requirements.

SAFETY

- The DAS has 4 built-in safety features to stop door operation if the door should come in contact with an object or obstruction.
- Door perimeter “Safety Strips” sense contact with interior of door and will stop operation if detected
 - Smart controller monitors power usage and stops door operation if excessive power is required
 - Speed sensor monitors door speed and stops operation if speed is outside of setting.
 - Internal Emergency Stop (E-Stop) button allows operator to quickly stop door if needed.



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