

Vehicle Speed Inhibiting & Limiting Modules

- Reduces truck down time
- Lower maintenance cost
- Reduces fuel cost
- Reduction in tyre wear
- Improves driving standards
- Increases safety

Forklift trucks represent a significant investment in terms of capital cost and keeping them operational is an essential ingredient of achieving business results. It is therefore beneficial to fit devices that minimise truck damage caused by bad driving practice such as driving too fast or attempting to change the direction of travel if the truck speed is above a pre-set level.

Forward Reverse Speed Interlock Device

The Davis Derby Forward Reverse Speed Interlock (FRSI) unit is designed for 12 volt IC engine trucks fitted with Torque Converter transmission systems to minimise damage to the truck drive train and reduce tyre wear. The device prevents drivers from changing direction of travel if the truck speed is above a pre-set level.

The speed setting can be adjusted if required.

Anti high rev take off is available as an option which prevents drivers from engaging forward or reverse when the truck is stationary and the engine speed is above a pre-set level.

Indications

Two led's are supplied which provide status indication of the FRSI unit for the driver.

Operation

When the truck is being driven above a pre-set level, it is not possible to change direction until the truck speed has fallen to a pre-set level and the driver has depressed the brake pedal. If the driver attempts to engage the opposite direction when travelling too fast the direction will not be selected,

it is then necessary to re-select when the truck speed has fallen to below the pre-set level. To assist the driver visual indication is given when travelling above the pre-set level.

The unit is adjustable for different speed settings.

If the vehicle is stationary but the engine speed is above the pre-set level, both the forward and reverse solenoids are disabled, preventing shock loading of the transmission system and wheel spin.

IC Engine Vehicle Speed Limiter

The Davis Derby Speed limiter unit is designed for IC engine trucks, to provide an adjustable speed control preventing trucks from exceeding pre-set levels.

Applications

The Speed limiter can be used in two ways:

1. As a free standing unit where the maximum speed is set to a pre-set level, preventing the truck from being driven above the pre-set level.
2. The device can be used with the Davis Derby Speed Zoning system where the maximum speed of the truck is automatically adjusted dependant on the zone it is working in. The truck receives a signal when it enters or leaves a particular zone, which sets the maximum speed for the truck. Hence in a confined area the speed could be set to a maximum of 5 mph for example, however when the truck leaves the area, the maximum speed of the truck can be increased to a different setting for example 10 mph.

Operation

When the Speed Limiter device is used in the stand-alone mode, the maximum allowed truck speed is manually adjusted to a pre-set level.

When the Speed Limiter device is used with the Davis Derby Zone Speed Control system, the Speed Limiter is set automatically to one of several speed settings in response to signals received from fixed infra-red transmitter units strategically positioned around the zones where the truck operates.

Details

The Speed Limiter is supplied as a kit containing the Speed limiter module, the control motor which interfaces with the throttle, the speed sensor and the necessary cables.

Description

These robust units are designed to give consistent and reliable operation when used in the most demanding of environments. The compact units are housed in metal enclosures, sealed to prevent ingress of dust and moisture to IP 65.

The units can be powered from a 12 volt dc supply or connected to a 12 volt CANBus to enable compatibility with certain other products in the TruckLOG range.

Support

Davis Derby can provide a comprehensive Installation, Commissioning and Training service.

Specification

Parameter	Specification
Input voltage	12 volts dc nominal (10 volts minimum to 16 volts maximum)
Ambient temperature	0 to 70°C
CANBus	Conforms to version 2A (Davis Derby Protocol)
Truck Speed Input	Derived from proximity sensor (Usually fitted to differential)
Servo Motor	Applicable to IC Engine Speed Controller – Nominally 12 volt dc reversible polarity



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Davis Derby is a world leader in the design, manufacture and installation of fork lift truck access control and fleet management systems