

Automotive Sensor Products

Power Assist Speed and Direction Sensors



General Description

The Power Assist Speed and Direction Sensor is integrated into the powered door or tailgate system of the vehicle for safe operation. This sensor helps to prevent injury and/or damage to occupants, pedestrians outside the vehicle and the vehicle itself. Some models provide "set points" for custom stop height on tailgates.

Features

- Operates when target wheel (ferrous or magnet encoder) rotates within gas spring assembly
- Internal circuit protection available
- EMC/ESD protection available
- Choice of circuitry for outputs
- Choice of connectors and terminals

Benefits

- Sealed or unsealed construction options makes this sensor type well suited to various environments
- Magnetically operated non-contact sensing gives excellent life and reliability

Applications

- Sliding Door Automatic Systems
- Tailgate Automatic Systems
- Trunk Automatic Systems

Operation

Basic Principle

Hall Effect technology based sensors operate on the change in an external magnetic field which results in a change in the output current of the sensor.

Packaging Options

Custom packaging can be provided to meet any need, please contact Littelfuse Engineering for details.



Automotive Sensor Products

Functional Characteristics

Parameter			
_			
Туре			
Hall Effect Sensor			
Output			Bi-State Current
Electrical			
Operating Power Input	Voltage	Min-Max.	4 – 24 V
Max Power Input	Voltage	Max.	26 V
Low State Output	Current	Min-Max.	4-12mA
High State Output	Current	Min-Max.	12-24mA
Duty Cycle Variation (Direction Sensor)			+/- 10%
Bandwidth	kHz	Max.	20kHz
	·		
Environmental/Mechanical			
Temperature	Operating	Celsius	-40° to +150°
	Storage	Celsius	-65° to 150°
Shock	11ms ½ Sine	Max.	100g
Vibration	20 – 2000Hz	Max.	30g

Custom electrical and environmental specifications can be designed to meet any need, please contact Littelfuse Engineering for details.

Littelfuse

Website: www.littelfuse.com

Sales Support: ALL_Autosensors_Sales@littelfuse.com
Technical Support: ALL_Autosensors_Tech@littelfuse.com

Information provided by Littelfuse is believed to be accurate and reliable.

All rights reserved. Trademarks and registered trademarks are the property of their respective owners.

Littelfuse products are designed for specific applications and should not be used for any purpose (including, without limitation, automotive applications) not expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse product documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse product documentation.

ASP-MKT45-0002-AB