

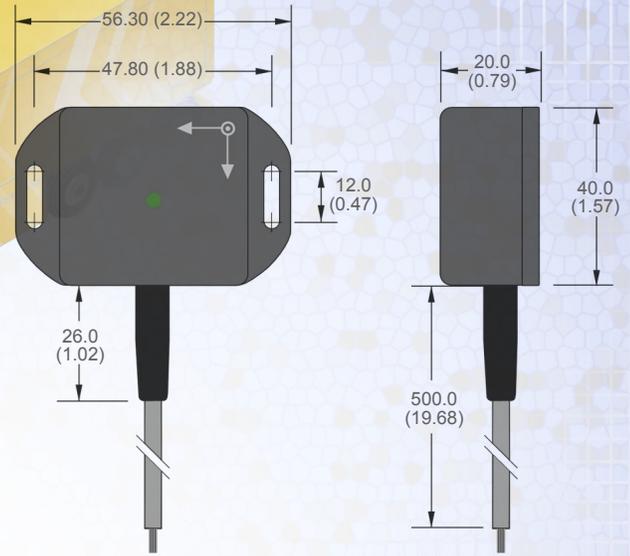
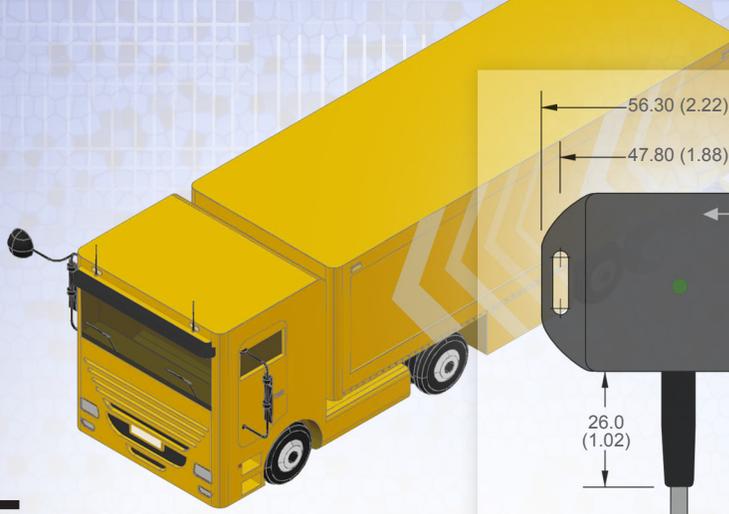
COMUS



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PDT1005 INCLINATION SENSOR

From the Comus Group of Companies

FEATURES

- Multi Axis Tilt Sensor
- Two Analog Outputs
- Senses XY Planes
- Vibration Resistant
- Mechanical Stress Resistant
- Environmentally Safe

Housing Material

- ABS Plastic
- Epoxy Encapsulated

Customization

- Reaction Time
- Tilt Control
- Size of Unit



Many modern air suspension systems utilise an electronic level sensor that feeds back information to a central controller which in turn adjusts the pressure of the air below suspension units to equalise an off balanced load.



In recent years air suspension technology has evolved from only being used in truck trailers and heavy load vehicles to modern trucks, cars, camera vehicles and motor homes. In some cases the air below assists the conventional suspension system and gives added support or adjustment when a vehicle is loaded with heavy items. Having a level sensor on the vehicle is the best way to automatically adjust the suspension to suit a specific load.



Comus tilt sensors are a proven and reliable choice for monitoring and leveling high rise window cleaning platforms and hydraulic lifts where safety is second to none and now the same technology that is relied upon for personal safety is being used in vehicle leveling devices. With a full range of inclination, acceleration and shock sensors our engineers are happy to offer advice, designs and technical support.

OTHER COMUS SENSORS

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[Night Vision with a Flip of a Switch](#)

[In the Spotlight Solid State Relays](#)

[Housed SMD Reed Switches](#)

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APPLICATIONS

Our Smart Sensors have found a home in the most diverse of applications and industries:

- medical devices such as hospital beds
- vehicle leveling and/or alarm control sensing
- solar panel positioning
- safety sensing for heaters where equipment has to be kept in relative level state

The picture to the left gives one example of a truck using the PDT1005 to evenly distribute the weight of its load. The PDT1005 is used in the truck's suspension to prevent one side of the truck from leaning over because of a heavier load located only on one side. Our smart sensor is located below the truck's trailer to send information to the suspension for adjustments when necessary. This prevents the truck from tipping over and possibly causing a fatal accident.

