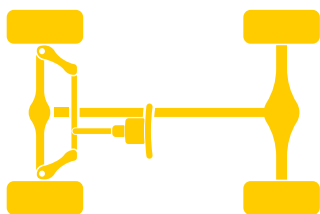
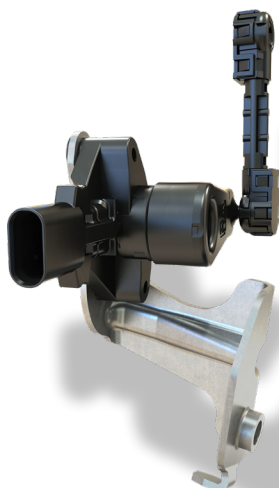


VEHICLE HEIGHT SENSOR



VEHICLE DYNAMICS

Improving vehicle dynamics control for comfort and safety



TECHNOLOGY HALL 2D

Application description

The vehicle level sensors is used in different automotive control system, monitoring by European regulation:

- ▲ Headlight levelling control:
 - This system guaranty that the vehicle doesn't dazzle others users on the road.
 - It also guaranty that the lighting range is always maintained.
- ▲ Active suspension control:
 - Comfort and safety : maintain chassis stability and vehicle height constant.
 - Safety and fun to drive : adapt suspension performances to road and drive conditions, and allow the driver to select modes (sport, comfort).
- ▲ Load monitoring:
 - For safety purpose the system monitor the vehicle load and balancing.

The sensor body is fixed on the chassis, and a rotational lever is attached on the wheel arm of the vehicle with a rod. This lever angle depends (and then the angle information provided by the sensor) on the angle of the wheel arm.

Technical characteristics

- ▲ High sealing feature:
 - Fully over molded design
 - Optimized design for harsh environment (under chassis)
 - Resist to splashed water, gravelling, dust ingression, stones shocks
- ▲ Lean design for cost optimization
- ▲ Specific rod concept for adjusted and uneven plug and unplug effort
- ▲ Flexible product portfolio: customized chassis bracket design, rod length and angle
- ▲ High accuracy measurement
- ▲ Flexible output protocol
- ▲ Possible measurement redundancy, or output doubling for high level safety goals
- ▲ Temperature range: -40°C / 160°C