Market growth in driver assistance systems and the increased demand for reduced fuel consumption and emissions has strengthened the need for a dynamic driver/accelerator pedal interface.

HELLAs Active Accelerator Pedal Sensor (AAPS) is used to actively communicate with the driver, supporting energy efficient driving habits. Examples for possible applications:

→ Electronic technology in hybrid vehicles: Force increase of AAPS indicates the switch between combustion and electric engine
→ Manual transmission: AAPS communicates the optimum shift point to the driver using a customer specific interface (knocking, vibration or force increase)

As a global supplier of electronic automotive products HELLA are technology market leaders in accelerator pedal sensors with world-wide production and development centers.

ADVANTAGES

→ Compact and integrated design
→ Cost attractive solution providing vibration or knocking
→ Force step/peek applicable
The driver feedback provided by the AAPS is specified by the customer. This ranges from vibration and knocking to variable force resistance.

- Intuitive communication with the driver
- HELLA sensor technology CIPOS®
  (Contactless Inductive Position Sensor)
- Customized design and modular concept
  - Small packaging design
  - Design based on proven technologies
- Redundant signal is in proportion to the pedal position
- Force dependent hysteresis with redundant return force
- Analog and/or digital output signal
- Adaptable haptics