FEEDBACK ACCELERATOR PEDAL SENSOR (FAPS)

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 Feedback Accelerator Pedal Sensor (FAPS) 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 FAPS indicates the switch between combustion and electric engine
→ Manual transmission: FAPS 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 FAPS is specified by the customer. This ranges from vibration and knocking to variable force resistance.

FEATURES

→ 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