

Hella are a leading provider of steering control modules, with 22 million in the current market. They presented state-of-the-art steering and braking solutions at the Steering Systems expo in Detroit.



At the conference, Hella showed steering control modules as fail-safe or fail-operational. This means that in the event of a fault in the electronics, the system will be able to continue safe operations, making the steering control module suitable for level 4 automated driving, a condition which SAE defines as being able to operate under certain conditions without any form of human intervention.

Hella also showed the latest generation of their well-known steering angle sensor, called the Torque and Angle Sensor (TAS). These sensors, based on CIPOS® (Contactless Inductive Position Sensor) technology, measure the torque and angle of the steering wheel with high accuracy. As a result, they are a major factor in the move toward driverless driving. Data from the sensors is already being used by the lane keeping assist function, which, semi-autonomously, can keep a car in the correct lane by means of automatic steering impulses sent to the driver. This also ensures the necessary redundancy for more complex future autonomous driving functions.