

22 August 2001

HELLA SHOWCASE NEW DEVELOPMENTS AT IAA 2001

Hella, the leading auto-component manufacturer, will be exhibiting at IAA 2001 in Hall 8.0, Booth C01. Detailed below are the latest Hella developments to be featured at Frankfurt.

Daytime running light to become compulsory

ACEA, the European automobile manufacturers association is planning a self-imposed requirement for daytime running lights for new vehicles from October 2002 onwards in order to improve pedestrian protection. This will initially be achieved technically - by dipped-beam lights being permanently switched on. Hella has developed economical daytime running lights for retrofitting, which are fully approved by ACEA...

Improved night vision with infra-red headlamps

Night Vision systems based on infrared headlamps will make an important contribution to improving night traffic safety in the future. The headlamp can illuminate the main-beam area, up to 200 metres in front of the vehicle, however this is invisible to the human eye. The infra-red light reflects back objects in front of the vehicle and is recorded as an image by a camera and represented on a display inside the vehicle...

Cornering light from 2003

Hella xenon and bi-xenon headlamps are progressively becoming more common in all classes of vehicles. The next development stage is the variable, intelligent light system of the future (VARILIS) with its fully automatic light control, which adapts lighting to a driver's immediate needs. Approval is expected from international legislative bodies by 2005 that will allow VARILIS to go into full production. Development engineers are currently working on cornering light, an intermediate step for 2003, which will greatly increase safety. Swivelling bi-xenon headlamps or additional static cornering headlamps will produce cornering light...

Xenon light continues to assert itself

The Hella xenon mark 4 electronic control unit has gone into series production, it is estimated that within 2 years 3 million per year will be produced. Ten years after the first Xenon headlamp came onto the market this revolutionary lighting technology is becoming ever more popular. Drivers and vehicle manufacturers alike are convinced of its advantages and resulting safety gains. Even small cars are now available with this high-performance light...

Hella light guide technology for front headlamps pioneered in the Volvo SCC

Hella has developed a headlamp system using light guide technology for the Volvo SCC (Safety Concept Car). This innovative system has a modular construction with the light source and light aperture positioned separately. This will allow completely new designs of vehicle front ends and means that beam patterns can be optimised even further. Hella is using Fresnel lenses for the first time in the Volvo SCC headlamp system as a stylish alternative to the Kartoval lenses used to date...

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HELLA SHOWCASE NEW DEVELOPMENTS AT IAA 2001/2

Bi-Xenon for the new BMW 7-series

Hella in close co-operation with BMW specialists has developed Bi-Xenon headlamps as well as LED and light guide technology for state-of-the-art exterior and interior lighting systems for the new BMW 7-series. The largest number of LEDs ever, 74 in total, are used in the combination rear lamp. In addition there are electronic components such as the power module for energy management and the VNT actuator in the turbocharger of the V8-turbodiesel engine...

World's first electromotive actuator for turbochargers

Hella has developed the world's first electromotive actuator for turbochargers, in co-operation with their partners at Honeywell/Garrett (specialist turbocharger manufacturer) and BMW. The actuator is already being used in the series production of the 3.9 litre V8 diesel engine version of the BMW 7-series, in the BMW Alpina B6 and in the V8 turbo diesel engine of the Mercedes-Benz S- and M-Class. Further turbocharger applications are to follow shortly...

Intelligent power modules and overhead control centre for the Mercedes-Benz C-Class

Hella has developed two intelligent signal recording and control modules (SAM) and a complex roof node for the C-Class from Mercedes-Benz. The two CAN-bus-capable control units cover more than 30 basic functions for the front and rear areas of the vehicle...

DC/DC converter for 42V/14V on-board mains concepts from Hella

In order to make it possible for car manufacturers to introduce 42V on-board mains voltage as soon as possible, Hella has developed a 42V/14V DC/DC converter. The main advantage is that the supply of 14V to consumers is still guaranteed. The dual 42V/14V on-board mains will also considerably reduce the risks when the 42V standard is introduced...

Advances in thermal oil level sensors to check oil condition

Hella has further developed its thermal oil level sensor supplied as a series part to many important car manufacturers. The enhanced sensor records additional physical values enabling the evaluation of oil quality. In addition to more exact measurement of temperatures, the sensor records additional physical values for the evaluation of oil quality. Based on the principle of thermal oil level sensors this is done by extending the measuring range, using innovative micro-sensors and adapting evaluation using higher quality temperature sensors...

Keyless access and drive authorisation system

Enter comfortably without the need for a car key, start the engine by pressing a button and drive away: that's how easily, comfortably and safely every car journey will be able to begin in the near future. Hella has developed an appropriate keyless access and drive authorisation system "Passive Entry/Go"...

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HELLA SHOWCASE NEW DEVELOPMENTS AT IAA 2001/3

Fully integrated accelerator pedal modules for passenger cars

Hella, European market leader in drive-by-wire systems, is the first to develop completely integrated accelerator pedal modules for passenger cars with SI and diesel engines as well as electric vehicles. The unit's compact, modular construction and standardised technology can be adapted to a wide variety of different mounting situations in different vehicle models. It is simple to install and light-weight...

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For full details and photography or to arrange a telephone interview with a Hella spokesperson please contact:

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All releases with photography will posted on the Hella internet press centre from 10th September at www.hella-press.com
