



Additional cornering lights

› On winding roads, the **inside of bends are not illuminated by headlights** and remain in darkness. A problem which additional cornering lights eliminate...



› BASIC FACTS

On winding roads, the inside of bends can conceal obstacles that are barely visible to the driver because of the directionality of traditional headlights. Their beam of light is emitted in line with the axis of the car and so is cast tangentially to the curve of the road. The inside of the bend therefore remains in half-light.

IN SHORT ›››

Additional cornering lights, directed at an angle of 40° to the axis of the car, light up the inside of a bend. They are automatically deactivated at high speed or in reverse gear.



HOW DOES IT WORK?

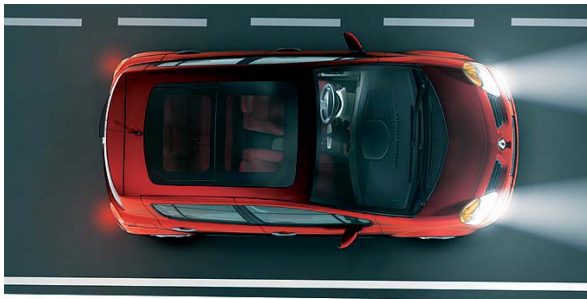
1 ACTIVATION

A specific computer compares and exploits data from several sources. An angular steering wheel position sensor indicates the driver's actions to the computer and, in particular, the direction of the bend – a right-hand or left-hand bend. The wheel tachometers supply the speed of the car. This data comes from the ABS computer. The computer also takes account of the position of the lighting controls. While making use of all of this information, the calculator gradually illuminates either the right or left additional light. Its beam, directed

at an angle of 40° compared to the axis of the car, illuminates the inside of the bend.

At high speed, the feature does not function since it is no longer a question of bends but of broad curves. The normal light coming from the headlights is therefore sufficient to illuminate them completely. As a result, once a certain speed threshold is reached, the computer automatically inhibits the additional cornering lights and reactivates them as soon as speed decreases again.

2 ADAPTATION Avoiding the traps of winding roads



RENAULT COMMUNICATION

Because of their fixed direction, traditional headlights cannot illuminate the inside of bends on winding roads. For the driver, certain obstacles may not be seen. By delivering a complementary source of light directed towards the interior of the bend, additional cornering lights eliminate these traps. The additional cornering lights on Modus were awarded the EPCOS-SIA 2005 innovation trophy.