



# SENSOR, XENON LIGHT – HEADLIGHT RANGE ADJUSTMENT

SENSORS | 10103

## Function

A basic distinction is made between manual and automatic headlight range adjustment.

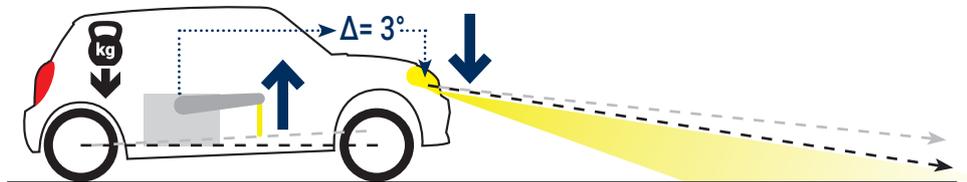
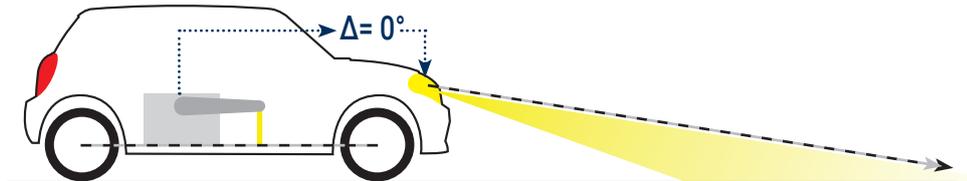
In manual LWR, the control is done by the driver himself.

Automatic LWR is divided into dynamic and quasistatic. The dynamic LWR is mainly installed in vehicles equipped with xenon headlights. This reacts to the different loading conditions in the vehicle as well as to changes in inclination caused by driving, such as acceleration and braking.

In the quasi-static LWR system, a control unit evaluates the data from the front and rear axle sensors, compares these with the stored target data and, if necessary, controls the servomotors on the headlights accordingly.

## Advantages of automatic and quasi-static headlight range adjustment:

- Better road illumination
- less or no glare from oncoming traffic
- independent automatic headlight range adjustment



## REASONS FOR FAILURE

- Servomotors on the headlights defective
- LWR sensor for the vehicle level defective
- Control unit has been replaced and not coded
- Headlights have not been adjusted (default setting)
- Control unit defective
- Interrupted data line
- No supply voltage
- Mechanical damage



## RECOMMENDED BY THE EXPERTS

- Annual inspection of all components belonging to LWR
- With manual LWR, regularly actuate the adjuster with the lighting switched on
- When replacing a light fitting, always check whether it has been installed correctly



## SENSOR, XENON LIGHT (HEADLIGHT RANGE ADJUSTMENT) FROM VEMO

You can find the entire range at [www.autoteile.de](http://www.autoteile.de)

- **extensive range:** for the latest applications worldwide
- **iSP film:** securely packed in iSP antistatic packaging film
- **tested quality:** many sensors in Q+ quality



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**AUDI | SEAT | ŠKODA | VW**



|                             |                                        |
|-----------------------------|----------------------------------------|
| <b>Audi</b>                 | A3, A4, A6, A8, TT                     |
| <b>Seat</b>                 | Alhambra                               |
| <b>Škoda</b>                | Superb                                 |
| <b>VW</b>                   | Bora, Golf, New Beetle, Passat, Sharan |
| <b>Fitting Position</b>     | Front Axle, Rear Axle                  |
| <b>Engine Type</b>          | Petrol, Diesel, Hybrid                 |
| <b>X-Ref 4B0 907 503 A*</b> | <b>V10-72-0807</b>                     |

**BMW**



|                               |                                      |
|-------------------------------|--------------------------------------|
| <b>BMW</b>                    | E46, E39, E60/61, E63/64, E65/66, X5 |
| <b>Fitting Position</b>       | Front Axle, Rear Axle                |
| <b>Engine Type</b>            | Petrol, Diesel                       |
| <b>X-Ref 37 14 6 778 811*</b> | <b>V20-72-0480</b>                   |

**BMW**



|                               |                                        |
|-------------------------------|----------------------------------------|
| <b>BMW</b>                    | E46, E39, E60, E65, E83, E53, E85, E86 |
| <b>Fitting Position</b>       | Rear Axle                              |
| <b>Engine Type</b>            | Petrol, Diesel                         |
| <b>X-Ref 37 14 6 784 697*</b> | <b>V20-72-0546</b>                     |

**MERCEDES-BENZ**



|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Mercedes-Benz</b>        | W/S 211, W/S 202, W/S/CL 203, W220 |
| <b>Fitting Position</b>     | Front Axle, Rear Axle              |
| <b>Engine Type</b>          | Petrol, Diesel                     |
| <b>X-Ref 010 542 77 17*</b> | <b>V30-72-0173</b>                 |

\* For detailed vehicle information, please refer to the vehicle lists under [www.autoteile.de](http://www.autoteile.de).

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