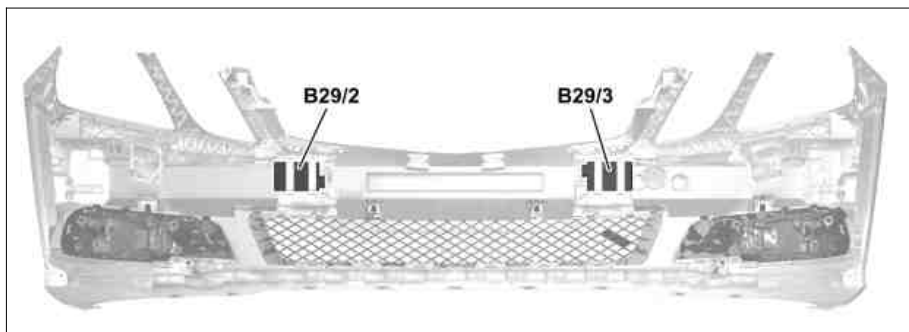


MODEL 212.0 /2 up to 31.5.10 with CODE (234) Blind Spot Assist

**MODEL 212.0 /2 up to 28.2.13
with CODE (233) Distronic Plus
with CODE (237) Active Blind Spot Assist**

Shown on a disassembled bumper at the front (internal view)

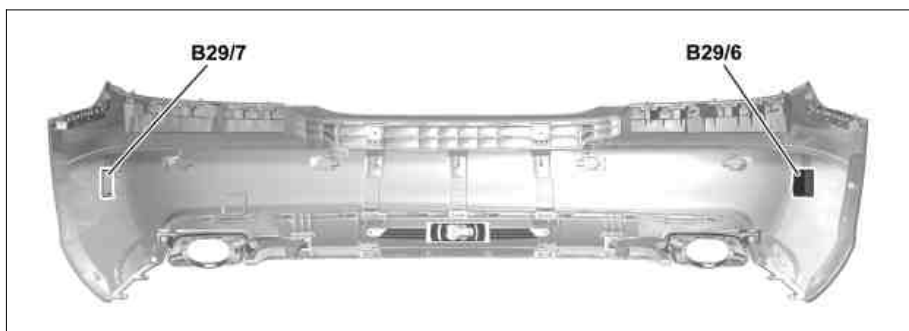
- B29/2 DISTRONIC sensor (DTR) / left front bumper*
- B29/3 DISTRONIC sensor (DTR) / right front bumper*



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Shown on a disassembled bumper at the rear (internal view)

- B29/6 Bumper radar sensor at the left rear (for code (237) Active Blind Spot Assist or up to 31.5.10 with code (234) Blind Spot Assist)*
- B29/7 Bumper radar sensor at the right rear (for code (237) Active Blind Spot Assist or up to 31.5.10 with code (234) Blind Spot Assist)*



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Location

Front:
The DTR sensors are inserted from the rear at the left and right respectively into the front bumper.

rear:
The radar sensors are respectively inserted on the inside on the left and right outer side for the rear bumper.

Task

The radar sensor or the DTR sensors (short range sensor) recognize objects (e.g. vehicles) in the short range area up to s = 30 m for a maximum detection angle of $\alpha = 130^\circ$.

Design

The radar sensors or the DTR sensors are ultra-wideband radar sensors with the following properties:

- Radar sensor detection range $s = 0.18$ to 30 m, at a resolution of $s = 0.04$ m
- Acquisition angle $\alpha = 60^\circ$ with angle determination and $\alpha = 130^\circ$ only detection (track)
- Carrier frequency $f = 24.125$ GHz
- Method of operation: short pulse method with $f = 5$ GHz band width

The high band width of the radar sensors or the DTR sensors allows a very precise position statement to be made and optimizes separation of objects lying close to each other.

i Coding (differentiation) for the individual radar sensors takes place by means of different assignment with ground on pin 5 and 6.

The radar sensor or the DTR sensors are actuated and evaluated by the following control units via the sensor CAN (CAN S):

- Radar sensors control unit (N62/1) (up to 31.5.10)
- Video and radar sensor system control unit (N62/2) (as of 1.6.10)

	Wiring diagram for the video and radar sensor system control unit	PE30.30-P-2103-97DAA
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