Detection Area Width
(Update to DPPS-05-09)

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Background

• Determination of the area intended to detect a pedestrian should be as independent as possible from

  • Width of the deployable system (bonnet, airbag, etc.)
  • Outer contour of the vehicle front (V-shape)
  • Other vehicle parts (e.g. bumper beam)
Proposal

New definitions for clarification:

• „Detection area“:
The area that is designated to detect a pedestrian in order to initiate the activation of the deployable system

• „Relevant vehicle width“:
Width of the vehicle without rear view mirrors or cameras, measured at the longitudinal position of the front axle of the vehicle.
Proposal

• The width of the detection area shall be the relevant vehicle width, minus a distance from each side of max. 12.5 %, but not more than 250 mm.

• The detection area must not be smaller than the bumper test area (BTA).
Example for the Detection Area

75% of Vehicle Width

BTA

[Information kindly provided by Volkswagen]
More Examples

[Images of vehicles with annotations: BTA and 75% Vehicle Width]

(Information kindly provided by Volkswagen)
Thank you