

底盘控制系统 侧向辅视系统 (SVA)



BOSCH

博世 科技成就生活之美

侧向辅视系统 (SVA)



客户获益

- ▶ 减少由于变道导致的交通事故
- ▶ 系统在低速时即启动, 辅助驾驶者应对各种复杂路况下的变道
- ▶ 车辆侧向保护
- ▶ 成熟的具有成本优势的超声波技术:
- ▶ 对错误报警和环境因素(温度、湿度、大气压)具备强大的抗干扰能力
- ▶ 可与其它基于超声波技术的功能协同工作

基于超声波技术的侧向辅视系统(SVA)通过监测车辆两侧视觉盲区的情况, 并为驾驶者提供相关信息, 从而帮助驾驶者在变道时避免与相邻车道上其他车辆发生碰撞。盲区是驾驶者的视线和后视镜无法覆盖到的区域, 靠近行驶中车辆两侧的后方。盲区会带来一定的危险, 特别是在驾驶者变道时。

特性

- ▶ 系统基于脉冲回波原理
- ▶ 传感器发射出超声波并接收障碍物反射的回波
- ▶ 监控车身两侧及斜后方对角线长达4米的区域
- ▶ 工作时速为5公里/小时至180公里/小时
- ▶ 识别驾驶者盲区中的车辆并立即显示在后视镜上
- ▶ 此外在打了转向灯的情况下系统会发出声音报警
- ▶ 选择性识别障碍物: 对迎面驶来的车辆、道路设施、以及从后方快速超越的车辆将不发送报警。
- ▶ 方向盘角度超过100°时系统不会启动
- ▶ 驾驶者可以按下SVA停用按钮来禁用该系统

报警策略



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中国印刷

Chassis Systems Control Side View Assist (SVA)



BOSCH
Technik fürs Leben



Side View Assist (SVA)

Customer benefits

- ▶ Reduction of accident risk while lane changing
- ▶ Driver assistance in complex traffic situations with low differential speeds
- ▶ Vehicle side protection
- ▶ Proven and cost effective ultrasonic technology:
 - robust against false positive alerts and environmental factors (temperature, humidity, atmospheric pressure)
 - synergy with other ultrasonic-based functions

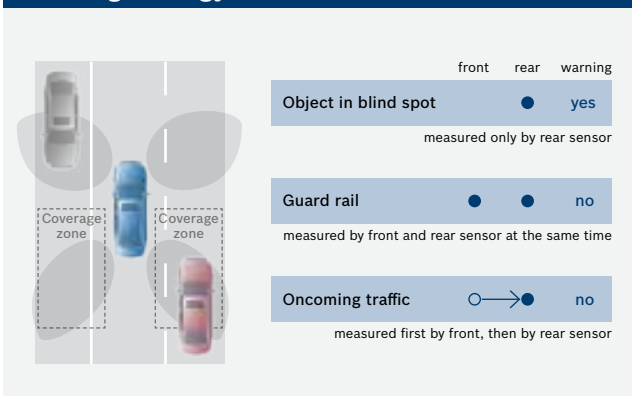
The ultrasonic-based blind spot assistant SVA helps drivers to avoid a crash with a vehicle in the neighboring lane by continuously screening the blind spots to the sides of the vehicle. SVA has an informative role and does not intervene.

The blind spot is the area not covered by the driver's line of sight and mirrors, alongside and offset to the rear of the moving car on both sides. This is a hazard particularly when changing lanes on a multi-lane road.

Features

- ▶ The system works on the pulse-echo-principle: The sensors emit short ultrasonic impulses and receive the echoes reflected by the objects
- ▶ Monitors the areas beside and diagonally to the rear of the vehicle up to a distance of 4 meters
- ▶ Operates between 5 km/h and 180 km/h (3.1 mph and 112 mph)
- ▶ Identifies vehicles in the driver's blind spot and displays them immediately in the side view mirror
- ▶ Additionally warning occurs if the turn signal is switched on
- ▶ Categorizes detected objects by their relevance: no warning in case of oncoming traffic, road infrastructure, and vehicles which are overtaken unless they stay in the blind spot area longer than 1.2 sec.
- ▶ Not active if steering wheel angle is bigger than 100°
- ▶ The driver can inhibit the system by pushing the SVA deactivation button

Warning strategy



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