

## Porsche Active Safe (warning and brake assist)

Porsche Active Safe (PAS - warning and brake assist) can initiate measures to protect occupants and other road users in certain dangerous situations.

Porsche Active Safe includes the following functions<sup>1</sup>:

- Distance warning (depending on equipment)
- Warning and braking functions
- Preventive occupant protection functions (depending on equipment)

The camera behind the windscreen captures the front vehicle environment. An imminent frontal collision with road users can be detected. The system warns the driver visually, acoustically and if necessary through a braking jolt. Where required, the system can support the driver's braking or initiate partial or full deceleration in order to reduce the collision speed or prevent the collision in some circumstances.

### System limitations

The system can warn of impending front collisions within the system limits and initiate appropriate braking manoeuvres<sup>1</sup>. Not all road users and dangerous situations can be recognised correctly and in time.

The lateral vehicle areas and the rear area are not monitored.

In complex driving situations, the system can give unwanted warnings and perform unwanted brake interventions.

The system is available above walking speed and can react to pedestrians up to a speed of

85 km/h (53 mph). It can react to vehicles up to a speed of 250 km/h (156 mph).

The system does not respond to animals, crossing vehicles, oncoming vehicles and objects such as bars, fences and rail vehicles.

#### The function is not available:

- When reversing.
- If the brake lights are defective.
- If the PSM malfunctions and PSM is switched off.
- If the airbag control unit malfunctions.

#### The function may be restricted, or unavailable:

- Up to 10 seconds after switching on the ignition.
- If the seat belts are not fastened.
- In sharp bends.
- In the presence of reflective objects such as guardrails or when entering a tunnel.
- In heavy rain, snow, fog and ice.
- In the event of damage to the windscreen.
- If the windscreen is dirty.

## Switching Porsche Active Safe on/off

### NOTICE


- ▶ Switch off Porsche Active Safe in the following situations:
  - When towing.
  - When driving off public roads.
  - When transporting, e.g. on a car transporter, train or ship.

▶ ASSIST  ▶ Porsche Active Safe

When Porsche Active Safe is switched off, the display appears on the instrument cluster.

Porsche Active Safe is activated automatically when the ignition is switched on.

## Distance warning

If Porsche Active Safe detects a safety hazard due to following too close, the driver is warned through the  symbol on the instrument cluster<sup>1</sup>.

Detection can take place in a vehicle speed range from approx. 65 – 250 km/h (40 – 156 mph).

### Setting the distance warning

▶ ASSIST  ▶  ▶ Assistance system settings ▶ Porsche Active Safe

## Warning and braking functions

The warning and braking functions can be activated in three stages.

- Collision warning (visual and acoustic)
- Acute warning (brake pressure)
- Automatic braking and brake assistance

1. Not available in some country versions.

## Collision warning



Fig. 142: Collision warning on the instrument cluster

The collision warning warns the driver by means of a warning tone and a symbol on the instrument cluster.

### Setting the collision warning

The collision warning can be switched off and on. The warning time can also be set.

- ▶ ASSIST  ▶  ▶ Assistance system settings ▶ Porsche Active Safe

### Acute warning

If the driver does not respond to the collision warning, a braking jolt is performed in addition to the warning tone and the symbol on the instrument cluster.

With the braking jolt, the system draws attention to the increasing danger of collision.

In the event of this warning, it may still be possible to prevent a collision through the driver avoiding the pedestrian or braking sharply.

### Automatic braking and brake assistance<sup>1</sup>

If the driver does not respond to the acute warning or does not brake sufficiently, the warning and brake assist, supports the driver during braking or brakes the vehicle to a standstill with progressively increasing braking force.

Additionally, a warning tone is emitted and a symbol appears in the instrument cluster.

By reducing the vehicle speed, the consequences of a possible accident are mitigated.

#### Information

Automatic braking interventions can be aborted with the following measures:

- ▶ Pressing the brake pedal
- ▶ Fully depress the accelerator pedal
- ▶ steer actively

#### Information

Once the vehicle has reached a standstill, it is not held permanently by the brake system.

- ▶ If necessary, actuate the brake and resume control of the vehicle.

## Preventive occupant protection function

### Seat belt system optimisation

When driving off, the front seat belts are gently tightened in order to ensure an optimal position with regard to the occupants. Activation is performed when reaching a driving speed of approx. 30 km/h (20 mph) or when the seat belts are fastened again.

### Preconditioning of the seat belt and passenger compartment

If a potentially hazardous accident situation is detected, the warning and brake assist can initiate measures to prepare for a possible collision in order to support the effectiveness of the passive passenger protection systems. For this purpose, depending on the situation, the front seat belts are reversibly pretensioned, windows are opened and (depending on equipment) the roof system is closed and the adaptive front seat side bolsters are inflated.

Within the system limits, the preventive occupant protection measures can be activated both during emergency braking initiated by the driver above a speed of approx. 30 km/h (20 mph) or through an automatic brake intervention initiated by the vehicle. As soon as the collision hazard has passed and a stable driving condition is achieved, the preconditioning measures are ended and existing seat belt tension is released again.

### System limitations

In the case of repeated activation (e.g. in the context of driver safety training), the belt tension increases progressively so that it may no longer be possible to reliably release the belt tensioning. In this case,

1. Not available in some country versions.

unfasten and refasten the seat belt or deactivate Porsche Active Safe.

After an accident, the seat-belt pretensioner may be damaged. Visit a qualified specialist workshop. Porsche recommends a Porsche partner as they have trained workshop personnel and the necessary parts and tools.

In the event of restricted or switched-off the PSM functionality, the preventive warning and brake assist occupant protection functions are deactivated.

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