

DVS Phase 2 - Progressive Safe System

Here at SDS we have been working on PSS for a while. With TFL releasing the requirements on Monday 4th September 2023 we have answered some of common questions below.

Our systems are ECE UN151 (BSIS) and UNECE 159 (MOIS) compliant so fully meet the PSS requirements.

Preorder our PZ151-BSIS and PZ159-MOIS Radar systems now. Limited stock will be available first week of October.

What is needed for the full Progressive Safe System?

- Moving Off Information Sensor System (MOIS)
- Active Side Sensor System (BSIS)
- Camera Monitoring System (CMS)
- Audible Left Turn Alarm
- A3 Warning Sticker

What do I need to upgrade DVS compliant vehicles to PSS standards?

- Moving Off Information Sensor System (MOIS)
- Active Side Sensor System (BSIS)
- A3 Warning Sticker

Which vehicles need PSS?

All 0, 1 and 2 star rated vehicles will need the updated PSS systems to enter London. (Unless exempt)

What are the current timelines for PSS?

- 24th June 2024 – Applications for new safety permit open.
- 28th October 2024 – New safety permit required for 0-2 Star HGVs.
- 28th January 2025 – Grace period ends for vehicles that can prove they have an installation booked for PSS equipment but haven't yet had them fitted.

Can AI cameras be used for MOIS and BSIS?

TFL PSS documents suggest that AI cameras will not meet the technical requirements laid out in them. The systems must be intelligent in how they foresee accidents whilst not overloading the driver with multiple screens of information.

There are also strict requirements on the area that is covered by the systems that may not be able to be achieved using AI camera systems.

AI cameras are also not currently certified for UNECE 151 and UNECE 159 regulations which TFL state as being the regulations they are trying to mirror in the PSS.

What are UNECE151 and UNECE 159 regulations?

- UNECE 159 - The MOIS system must use radar or lidar sensors to detect pedestrians and cyclists (VRUs) in the close-proximity forward blind-spot of the vehicle. The MOIS system will use TTC to warn driver of a likely collision.
- UNECE 151 - The BSIS shall inform the driver about nearby VRUs that might be endangered during a potential manoeuvre, by means of an optical signal, so that the vehicle can be stopped before crossing the VRUs trajectory. The BSIS shall warn the driver, by means of an optical (LED) signal, acoustical (Buzzer) signal, haptic signal or any combination of these signals, when the risk of a collision increases.

What happens to existing permits and kit?

- Current permits will expire at midnight on the 27th October 2024.
- Old style side sensors will not be accepted for the progressive safe system but may still be used as stationary object collision detection warning systems.
- If you fit the new PSS systems and register a vehicle now, you will still need to register for the new scheme when it is available.

What evidence is required for new PSS permits?

- 2 photos of the front/side and rear/side with products fitted.
- Sensor functionality statement from the fitter certifying that sensors work and have been fitted in accordance with the PSS technical specifications and are in working order.
- Sensor functionality statement from manufacturer stating that sensors are to the required technical specifications laid out by tfl.