



Part of the
Sentric Group

DEPOT PERSONNEL PROTECTION SYSTEM

Zonegreen is the world market leader and creator of the modern rail depot protection system with its SMART Depot Personnel Protection Systems (DPPS*).

What is DPPS?

Zonegreen's DPPS allows the safe and efficient control of vehicle movements in rail maintenance depots. The innovative system delivers the highest level of staff safety whilst maintaining a productive working environment within rail depots.

DPPS provides physical protection for staff, preventing vehicles from being able to enter a maintenance facility unless it is safe to do so.

How does it work?

Trains approaching the depot will halt at the driver signal which is interlocked with a powered derailer located at around 20 metres from the depot entrance. Access permission is given to the train by a supervisor using an operator-controlled road end panel (REP). This control panel is positioned at a convenient location within the maintenance facility, normally next to the depot doors, giving a clear line of sight to incoming and outgoing trains.

Only after the derailer has been lowered can the driver signal show a proceed aspect; visual and audible warnings are activated within the depot on the road on which there is a train movement. Once the train is positioned within the facility, the shunt signal is set to stop, the warning beacons and klaxons are turned off, and the derailer is raised to prevent further movement. Zonegreen's powered derailleurs are unique in having Network Rail approval; signalling interface and TPWS alternatives to derailleurs are also available.

RFID tags with varying authorisation levels – replacing the physical padlocks found in traditional depot protection systems – operate the DPPS and identify personnel working in different safety zones. Staff log on to the REP when they begin work, which prevents the derailer from being lowered, providing them with physical protection from train movements.

Why choose Zonegreen DPPS?

Installed around the world, DPPS is a proven "off-the-shelf" product, which utilises standard hardware and software to provide excellent reliability and functionality, which can be configured to the client's precise requirements. The system has been assessed to meet the hardware and software requirements of SIL 2 and is fully and independently EMC tested.

The fact that Zonegreen DPPS is a widely installed standardised product means that training plans, operating procedures and spares packages can be adopted by operators across multiple depot facilities.

DPPS incorporates the use of intelligent distributed control and communication technology, providing much increased system resilience, eliminating the risk of a single point of failure.

The Depot Manager software that accompanies DPPS offers a complete visual overview of the depot protection system. It provides key information to make operations quicker, easier to implement and offers comprehensive traceability.

**DPPS is a registered trademark of Zonegreen.*

