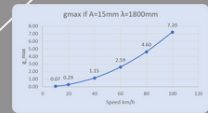
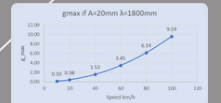
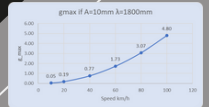


SAGGING RAIL DETECTOR



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RESEARCH

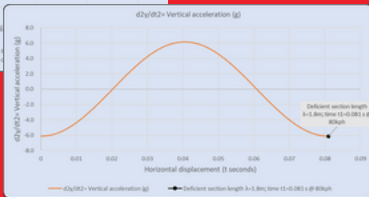
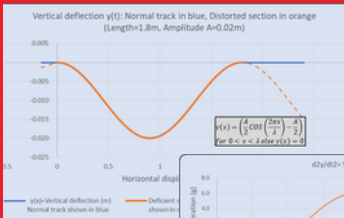
The research work behind this device was prompted by the damage caused to safety-critical railway infrastructure, such as signalling points, insulated rail joints, tracks, bogies, and wheels, due to horizontal movement within the track infrastructure. This movement is often caused by ballast wear over time, and when left unrepaired, it causes significant wear on the above-bearer infrastructure, which relies on a stable base.

MEASURE

To measure tiny incremental movement, a device is mounted at three different points on a car set. This ensures that the same reading, when detected, is verified and consistent across the length of the train set. These devices are calibrated to pick up baseline variations used to identify slack in the infrastructure and alert the train controller and maintenance team of its severity.

ALERTS

Due to the calibration options, alerts can be set up to lead the decision-making process to respond depending on the severity of the situation. The device can be set up to communicate with a centralized controller via GSM, satellite or fibre systems, as well as integrated with onboard train systems. Alarms can be set up to suit the needs of the team, with an alarm on the train controller's desk or screen, and email or SMS alerts to all members of the maintenance and call-out team.



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