



Level Crossing Obstacle Detection and the use of 24/7 CCTV

Since 2012 Network Rail have been implementing Obstacle Detection and CCTV systems at their full barrier level crossings, replacing signallers who previously monitored the crossing and initiated "crossing clear". This has not only reduced the operational cost but also the risk of human error whilst employing 24/7 CCTV coverage also allows for prosecution and consequently a reduction in level crossing violations.

TEW Plus Ltd have developed and delivered the LIDAR solution for 120 Level Crossings with a further 300 planned for upgrade over the next 5 years.

Unlike the rest of Europe Network Rail in the UK employ a system that detects human presence as well as vehicles, so protecting the general public rather than the railway infrastructure.

CCTV evidence shows numerous violations by members of the public which could have resulted differently if the OD system had not detected their presence.

I would like to demonstrate this explore the options around obstacle detection technologies, explaining the accuracy of such systems, false alarm rates and presenting CCTV evidence of violations and near miss incidents.

