WESTRACE Lx

siemens.com/mobility

Based upon our successful WESTRACE Technology Siemens have developed a new Lx Controller solution. By taking proven WESTRACE technology that has been applied on worldwide projects and creatingnewapplicationtechniques, Siemensisreducing the cost of modernising Level Crossings while still delivering SIL 4 safety.

SIEMENS

Ingenuity for life

The use of WESTRACE Lx Controllers eliminates the use of tradition Relays resulting in cost reductions in both installation, commissioning and ongoing maintenance. WESTRACE has high availability and reliability proven on Network Rail infrastructure over recent years. WESTRACE Lx Controllers offer reductions in Whole Life Costs through lower spare parts for maintainers. A Technicians facility is an available option and this cost further reduces set up times and maintenance fault finding.

The WESTRACE Lx Controller equipment can be packaged in a stand alone, plug coupled, Mini Equipment Housing (MEH). MEH footprints offer approximately 40% saving over a traditional Level Crossing REB housing conventional Relays. When space is critical then WESTRACE Lx Controllers can be integrated adjacent to existing equipment.

Benefits

Proven Hardware

Innovative Application Process

Dual Redundant WESTRACE Processor

Compatible with current UK Level Crossing Barriers

Advanced Diagnostics and simplified Maintenance

Compatible with 50V lineside circuits and Interlockings

ETCS Ready

Off-Site Testable

High Reliability

Reduced installtion when compared with relay solution

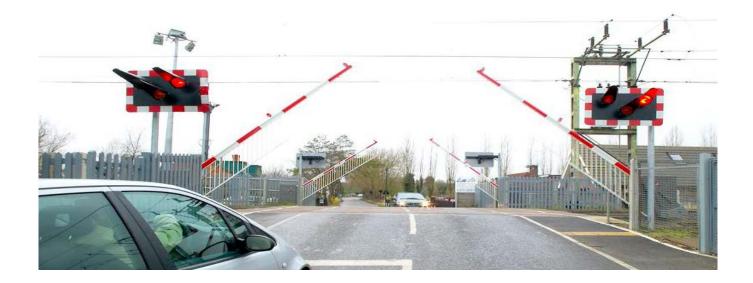
Remote Condition Monitoring option

Minimal Maintanence

Minimal Modification to Existing track

OPEX Savings





Siemens has commissioned the Westrace based Level Crossing Controllers' in the following configurations:

- MCB-OD
- MCB-CCTV
- AHBC

The cables connectiing the level crossing equipment (barrier machines, road lights etcs) to the Level Crossing Controller are plug coupled. This gives savings in Design, Civils, Installation and Testing.

The Westrace Crossing Controller and MEH have enabled Siemens to carry a significant amount of Level Crossing testing off site. The data collected so far indicates a shift in ratio of off-site to on-site testing from 30:70 to 60:40.

A benefit of the Solid State Level Crossing Controller is the Technician's facilities with comprehensive diagnostic reporting. The Technician's facilities are available both at the Crossing, and remotely at the Control Centre. This feature is an advantage during pre-commissioning with the majority of the Crossing Controls / functions being available whilst service trains can be observed to provide real time data for verification of timings, otherwise this would only be achievable under possession.

Siemens also offer the S60 Barrier Machine. More information can be found in the S60 Level crossing Barrier Machine data sheet.

References

North Lincs Project - 16 WESTRACE Level Crossing Controllers

GNGE Project - 35 WESTRACE Level Crossing Controllers

Siemens Ltd Infrastructure & Cities Sector Mobility and Logistics Division Rail Automation PO Box 79 Pew Hill Chippenham Wiltshire SN15 JJD UK www.siemens.com/rail-automation

Printed in the United Kingdom



The information within this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.