

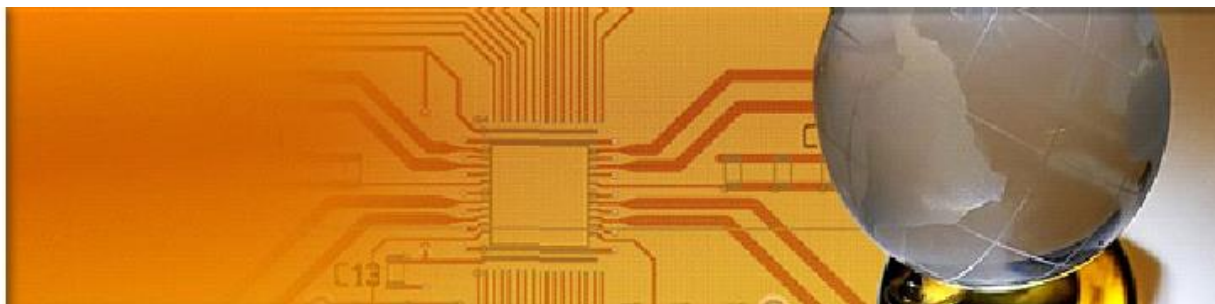
G.G.Tronics India Private Limited

Safety Signaling Solutions!

Innovating High-End Designs — Venturing a Jungle...!



G.G.Tronics
VISUALISING SAFETY SYSTEMS
AN ISO 9001 CERTIFIED



Train Warning System TWS-G315

Centralised Level Cross Warning Device using Axle Counter Technology

Overview

- TWS provides advance audio-visual warning to road users on approach of trains from either side
- System working is based on Digital Axle Counter technology
- Suitable for both manned and unmanned level crossings
- Architecture with Centralized Electronics only at LC gate
- Supports single line and double line track sections
- Free of electronics at Remote location
- Sensing train wheels remotely up to a distance of 5 Km.
- Complies CENELEC SIL-4 standards

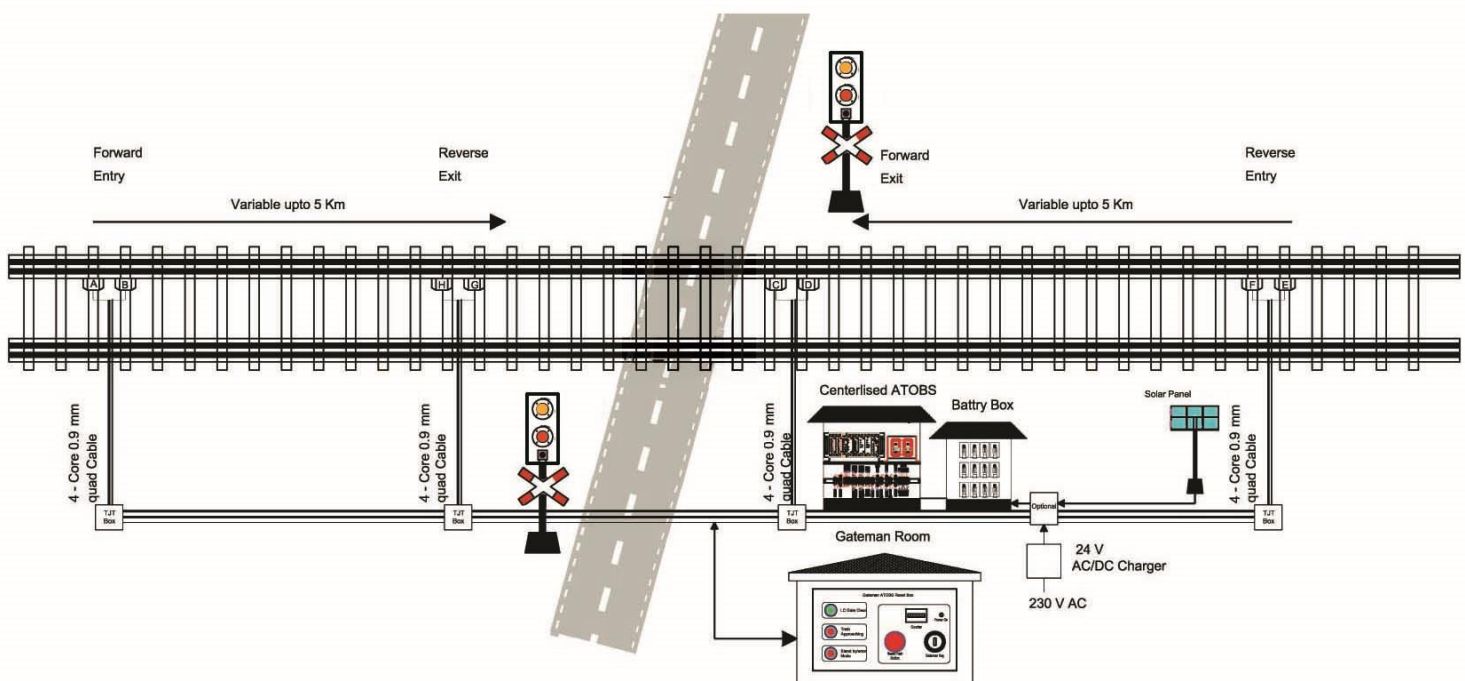
Modes of operation

- Normal, Standby, Shutdown

Salient Features

- System restores to normal on train clearing the LC gate.
- Having Signal post on either side of LC gate.
- Works on 90R, 52Kg and 60Kg rails
- Signal Post visibility up to 400mtr and audio range up to 30mtr.
- Works on 90R, 52Kg and 60Kg rails.
- Supports train detection event at 250Kmph.
- Works with 24Vdc power supply
- Power rating of 24 watts @24Vdc
- Protected against lightning strikes
- Stable operation between -10 to 70oC and RE area
- Inbuilt Event logging up to 14000 events
- GSM based system status reporting

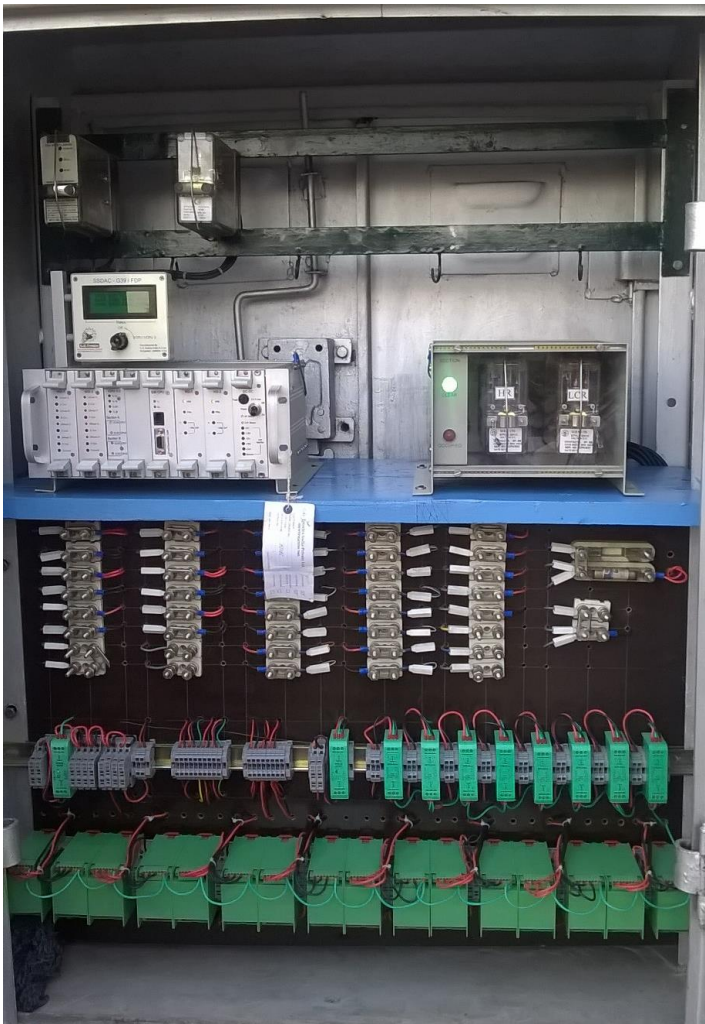
TWS for typical Level Crossing Gate



System Highlights

- 2 out of 2 architecture
- Wide input voltage range 18 to 72 VDC
- Drives 2 vital outputs for system health and train occupancy
- Built with SMD components for better reliability and compact design
- Easy housing in standard 19" aluminum cabinet
- Detection of In-count at remote track device / action by gate man to close the gate at Manned Gate triggers the hooter and warning lights to Flashing Red

Typical Installation of TWS



About us

- Established in 1991
- We value Customers, professionalism, quality, safety and ethical business practices
- Meeting challenges is a way of life

Vision

- To be a leading solution provider right from design, development, manufacture, testing and Commissioning in Railway Signaling and Industrial Automation sectors

Mission

- Committed to satisfy customer expectations with a focus on continuous improvement

Our People

- Inherent competency and committed team of professionals in respective domains

Our Strength

- Design, Manufacture, Supply, Installation and Commissioning of Safety Embedded Systems
- In-House Embedded System R&D
- Safety System design capability
- Product Engineering with PCB and mechanical design facility
- Hardware and Software safety validation
- System Hazard Analysis
- Reliability Analysis
- Incoming and Outgoing Quality Assurance
- In-House Automatic Testing of PCB's using In-Circuit Tester
- In-House Environmental Stress Screening
- Antistatic protected SMD and Leaded components production line
- In-House mechanical fabrication and Panel building

Quality policy of the company

"To provide value added products and services to the automation and transport control Sectors by continuously upgrading technology quality and reliability"

Total commitment by management for Quality Assurance right from Design, Development, Production, Supply, Installation and Commissioning Products meet environmental specifications laid by customers



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