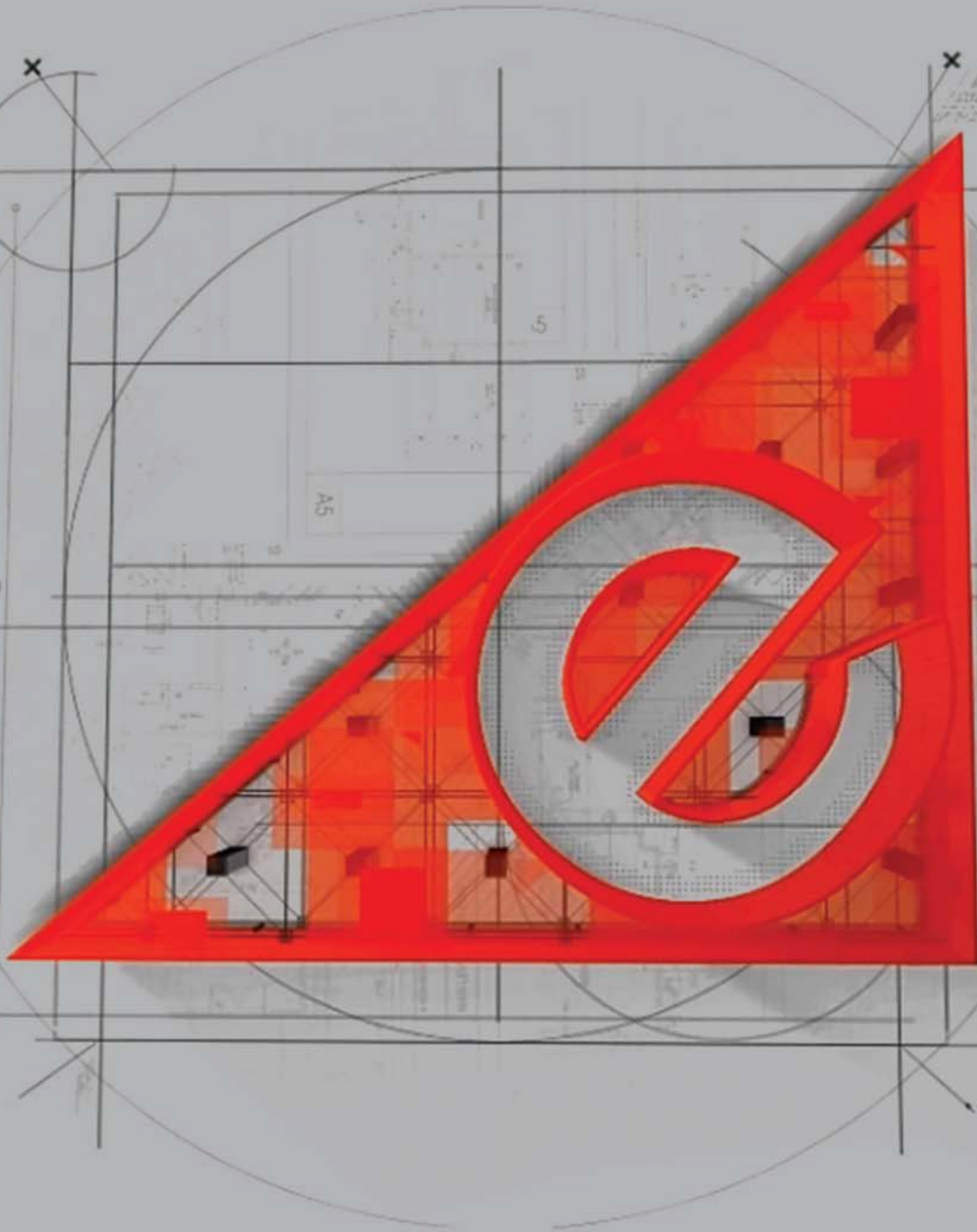




ermisLX

electronic railway modular interlocking system



General Overview

ermisLX is a modern Automatic Level Crossing System, developed and manufactured to manage and control stand alone or interlocked level crossings, enabling various traffic and operation modes.

Based on:

- safety PLC technology
 - SIL 4 track interface layer
 - railway certified network
- ensures the highest safety integrity level.

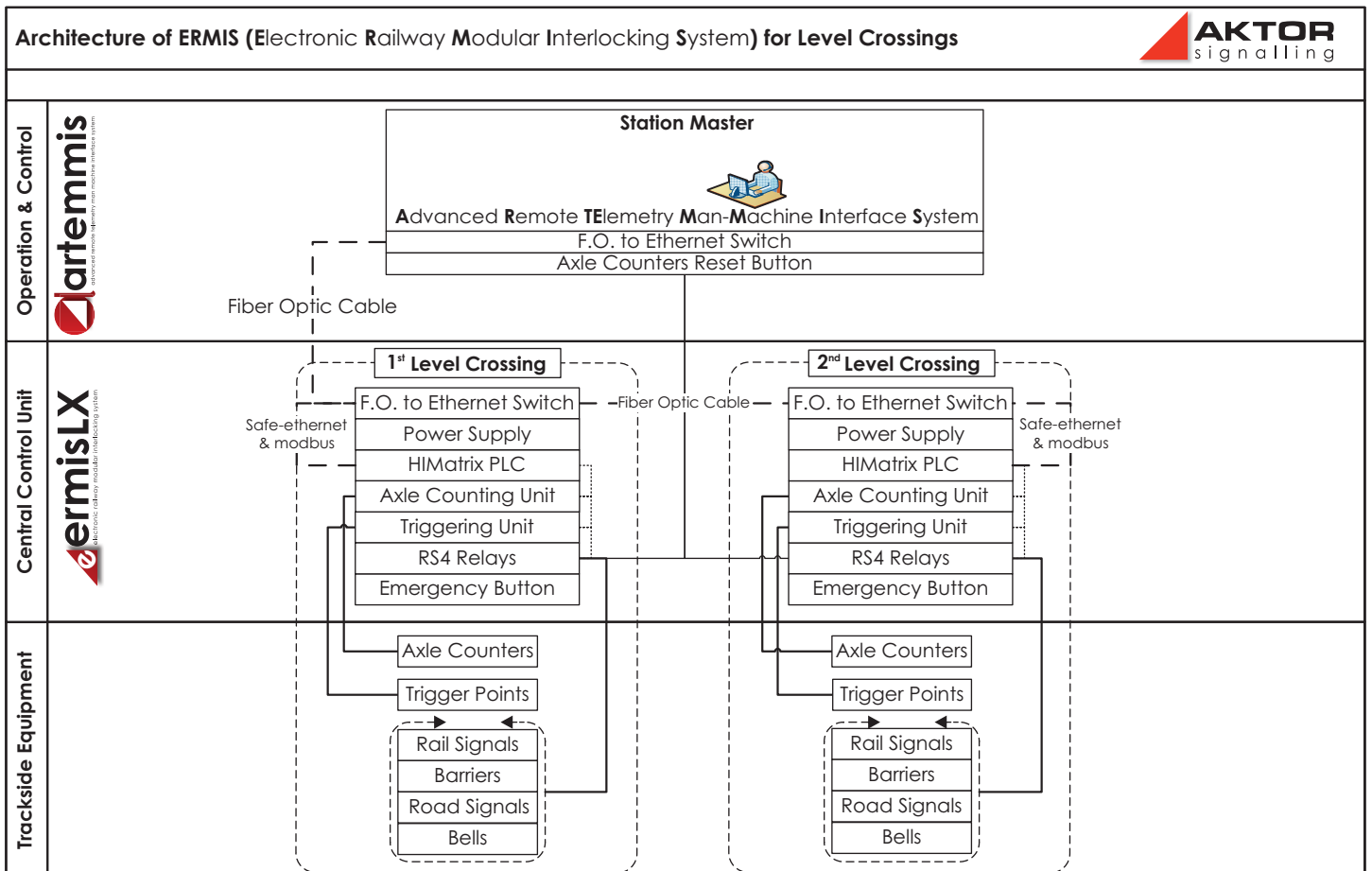


System Architecture Outline

Due to its open architecture, ermisLX is able to integrate various peripheral components such as:

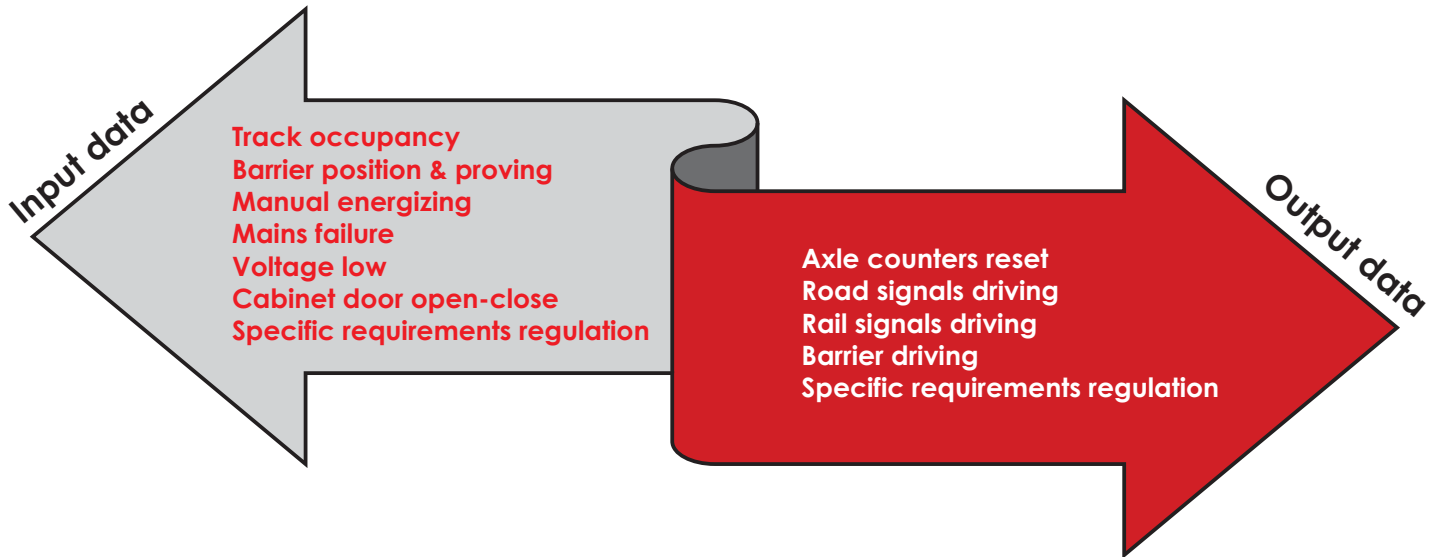
- Train detection systems
- Rail and road signals
- Barriers mechanisms

This system openness, combined with the highest safety level, makes ermisLX a state of the art level crossing system.



Data Management

Depending on each specific application, **ermisLX** is designed to acquire, process and manage all the data required for the safe operation of a level crossing. Digital and analogue inputs are processed, resulting in respective digital outputs which definitely comply with the components in use.



Connectivity – Communication

The connectivity between multiple **ermisLX** systems is very flexible and is implemented via Ethernet network technology, adapted to any specific application. This type of communication allows centralized programming, provides fast response time and a range of different network topologies.

Utilizing various communication mediums (copper, fiber optic, wireless etc.), **ermisLX** connectivity integrates safety-related and non-safety-related data and incorporates cost-efficient standard Ethernet components, chosen among all common manufacturers.

Transmission of teleadministration data to a traffic control center allows remote control - supervision and supports cost effective remote diagnostic and maintenance concepts.



Case: Athens – Piraeus Level Crossings

AKTOR's Automatic Level Crossing Systems have been installed along the main rail corridor between Athens, Greece's capital city and the harbor of Piraeus.

Three (3) **ermisLX** systems have been commissioned and set into operation in December 2017. The solution applied, integrated:

- all three systems in a common network
- remote control and command by **artemmis** MMI and
- isolation mode for shunting movements in the station of Rouf.


 advanced remote telemetry man machine interface system



Basic Features:

Cost effective design

Flexibility & adaptability

Robust construction

Minimum maintenance

SIL 4 certified