



Success Story

Thales is the first to install Axle Counter Systems on main line applications

In 2011 the State Railway of Thailand (SRT) launched the 'Railroad Level Crossing for Accidents Protection Project' (LX-Project). It equips about 988 public road railway track crossings with automatic warning light signals but mostly with full automatic half barrier systems over a period of 5 years. With the 'LX-Project' the train travel time and number of accidents at level crossings will be reduced significantly. Optimized minimal closing time, composed of the 3 main phases (activation, secured and deactivation) have a major impact on the success of the project.

The optimum means that the train travel is not impacted and the road traffic has to wait only for a minimum. So the reliability, availability, safety and accuracy of the activation and deactivation equipment is key to the acceptance of the level crossings by the users.

With SIL4 equipment for activation and deactivation, a safe operation with optimal closing times can be achieved.

Thales Axle Counter Systems provide all required features together with additional benefits in comparison to track circuits. **With an Axle Counter System there is no need for concern about rusty rails or water from flood or other origin because the System uses IP67 wheel sensors that have been proven to be highly reliable to operate below the water surface level.**

Also track condition and rail isolation do not impact the performance of an Axle Counter System as is the case with track circuits.

As an optimal, reliable, cost efficient, flexible and safe system, SRT has selected Thales SIL4 Axle Counter System for the 'LX-Project'. Since 2011, 200 Thales Axle Counter Systems have been installed together with the Thales local partners.

With the 'LX-Project', Thales has started its relationship with SRT and the idea was born among the partners (SRT, Thales and its local partner Xenix) to further embark on the advantages of the Thales Axle Counter System beyond the application in level crossing systems.

The first project required the upgrade of Talang Chan Junction with a point track lock system. The purpose of this system is to notify that a train is approaching the point and the control system will automatically prohibit any movement by normal operation when a train has occupied the point track system.

SRT has chosen the Thales Az LM System for this point track system. It was installed in July 2013 and is operating with excellence. It is supervised through Thales remote diagnostics and the Graphical Diagnostic Interface. **SRT selected Thales due to the cost efficiency, flexible design and performance of**

its Axle Counter System Az LM for this kind of application. This platform solution enables SRT to achieve savings of training cost for its staff as well as on the spare part stock as single section Axle Counter Az LS Systems are already in use on level crossing applications. Both systems integrate smoothly at their boundaries offering a seamless integration and the most suitable system design for each unique location.

Good trusted relationships among partners are the basis of our philosophy. Thales contributes with new products to the improvement of the railway service in Thailand with cost effective solutions.

