AEGIS[®] BY EFACEC

AEGIS by EFACEC [®] is a modular and cost-effective signalling solution for light rail and rail systems based on highly reliable and fail safe electronic interlocking equipment, complying with CENELEC EN 50126, 50128 and 50129 standards with SIL 4 Level.

Key features

- Modular architecture, making the system suitable for all applications, from light rail to conventional railway lines;
- COTS base solution, reducing both CAPEX and OPEX, when compared to a traditional interlocking;
- IP based communication between modules, using safety certified protocols;
- Solution for Operation Control Centres, Local Control Centres and Local Control Panels;
- Single on-board wireless solution for remote route command and traffic-light priority request.

Customer Benefits

The solution design is based on market standard HW & SW COTS (Commercial off the shelf) and its modular and scalable architecture enables flexible, highly reliable application with low life cycle costs, compliant with the client's specific requirements and guaranteeing future-proof investments.

Benefits

- Modular hardware and software architectures guaranteeing scalable SIL3&4 safety certified solutions according to CENELEC standards;
- Standard certified engineering configuration and test tools;
- Easy upgrading and updating;
- High reliability and availability;
- Lower life cycle costs.









Architecture

Three levels of system architecture

- The CC (Control Centre) level, from where the train dispatch of a line or a rail network is performed and the signalling system is remotely controlled and supervised;
- The Interlocking level, which includes the LCC (Local Control Centre), where the safety is assured, implementing all functions related with train movement authority and controlling the trackside signalling objects. The traffic dispatch of a geographic zone can be controlled from this level in case of failure on the network communications or CC (degraded mode);
- The Trackside level, the sensors and actuators level, such as axle counters, track circuits, point switch machines, route and shunt signals, level crossings and traffic light controllers, route demand local control panels and inductive loops.



Applications

AEGIS by EFACEC ® signalling system offers solutions for the following light rail and rail application scenarios:

- Interlocking of Terminus & Junctions;
- Traffic light priority & point controllers;
- Depot signalling systems;
- Conventional railway stations interlocking, including block system.



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