



SOLUTIONS FOR THE FUTURE
ELECTRONIC INTERLOCKING SYSTEM SIL.VIA

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Low floor light rail at Stollberg (Sachsen)

SIL.VIA, the interlocking system from BBR Verkehrstechnik, guarantees powerful and efficient operations control. It is designed for regional, industrial and light railways, including operation on tunnel tracks. With its modular design, **SIL.VIA** provides flexible railway traffic solutions at very attractive prices. It complies with category AK 6 (DIN 19250) of EBO and BOStrab, the German regulations for the construction and operation of railways and trams respectively, and with CENELEC standard SIL4.

Due to its compact and modular design **SIL.VIA** can easily be upgraded or expanded without significant impact on train operations.

The **SIL.VIA** system architecture is made up of a control level, a transmission level, and a safety level.

The control level comprises a central computer that integrates the route setting units, and a multi-monitor multi-workstation system with a logging printer. Operation and display of the control level are fail-safe.

Track diagrams are displayed graphically on the monitors, and operation is via mouse and/or keyboard. With up to 10 workstations with 8 monitors each, the size of the control level can be adapted to suit any facility. All route requests and routing commands are sent from the control level via the transmission level to the safety level.

LED signal



Component part carrier

Track diagrams
on monitors

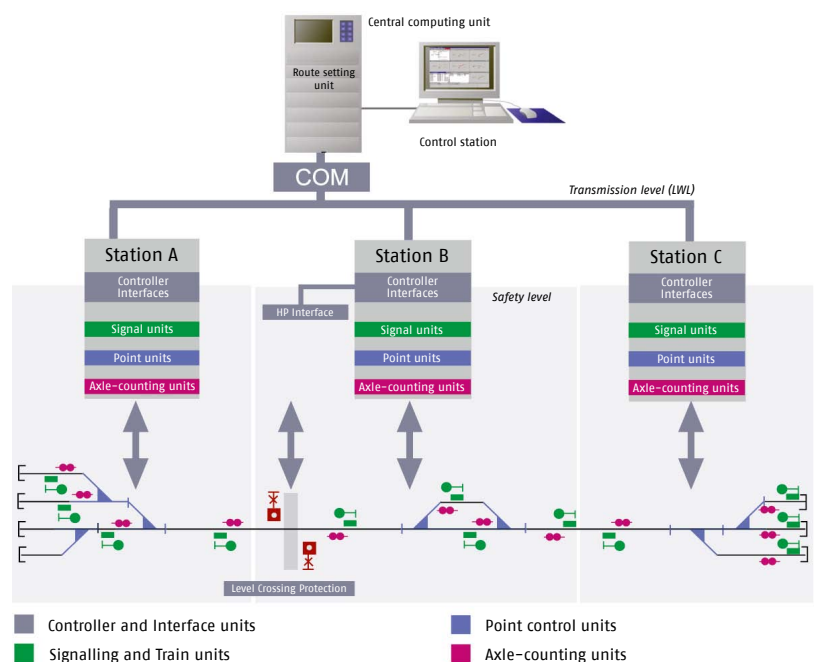


At the workstation, the operator can choose between automatic route setting and manual routing operations (e.g. for shunting). He can also release the system for local operation. The safety level forms the heart of the interlocking system, with its master controllers and functional modules. These modular 2v2 systems are all based on the same functional principles.

SIL.VIA comprises these modules:

- Master controller
- Interface modules
- Signal and route locking modules
- Points modules
- Axle counter modules; other vacancy detection systems can be connected (optional)
- Level crossing controllers
- Block system controllers

These modules monitor and control all parts of the trackside components in a block section. The controller reads and reliably processes the track vacancy components. The fail-safe connections between individual interlocking systems ensure there are no gaps between individual block sections. We have equipped **SIL.VIA** with compact, easy-to-maintain LED signals, but you can easily add or replace them with signals based on other technologies.



As standard, **SIL.VIA** has main LED signals with a 136 mm light opening, main and auxiliary signals with a 90 mm opening, and auxiliary signals with a 70 mm opening.

Our LED signals comply with all lighting engineering requirements for railways listed in the relevant regulations and standards, and they are safety-engineering certified by the TÜV technical inspection agency. With our signals, you can always be sure to have state-of-the-art technology.

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IRIS
Certification

