



A SYSTEM FOR SAFETY
AK 6 ELECTRONIC POINT CONTROL SYSTEM EWS-600



EWS-600

The electronic point control system *EWS-600* safely controls points and turnouts for public transport systems. Point machines from different suppliers and of different types can easily be adapted (e.g. 400V 3-phase / or 750V DC drives). A wide range of vehicle identification systems can be connected. The *EWS-600* point control system can integrate any known track-blocking devices such as axle-counters or MC-track-blocking circuits.

The microprocessor-based *EWS-600* meets all requirements for safety and operations in passenger transport and for operating speeds above 15 km/h (driving on sight) (VDE standards V 19250, V 19251, 0800, 0801, 0831, VDV 331, VDV 343 and B0Strab).



The point control system *EWS-600*, complying with safety category AK6, can easily be tailored to fit specific operating requirements.

AK6 ELECTRONIC POINT CONTROL SYSTEM

System structure

EWS-600 comprises these modules:

Safety level:

Duplex processor (controller) for safety functions, monitoring and emergency shutdown, point and signal control, connection of track blocking devices

Transmission level:

Vehicle identification systems (IMU – identification via induction loop, radio, or infrared systems)

Remote communication:

Communication with control centre via modem or fibre-optic connection

Safety level

The controller unit processes automatic or manual requests for routing commands (e.g. IMU readings, radio requests, or key switch inputs). It also controls and monitors the point machines, the relevant signals, and the track circuit devices.

Design

The following *EWS-600* modules are housed in a lockable glass fibre reinforced cabinet:

- Electronic components of the transmission level
- Safety level with signal control, points control and monitoring units
- Unit for evaluating track-blocking system data
- Lightning protection equipment (optional)
- Contactors for 600 V/ 800 V DC electromagnetic point drives (optional)
- Isolation transformer (optional) and power supply units
- All necessary connectors