



# INTELLIGENT SPEED LIMITER



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Intelligent Speed Limiter improves the safety of rolling stock by automatically limiting the speed on certain sections of track to prevent derailments.

The Intelligent Speed Limiter (ISL) is a key component of the ATO-assistance systems for trams, enhancing safety and operational efficiency. This system prevents the vehicle from exceeding the maximum permitted speed,

thereby minimizing the risk of derailment or other hazardous situations. ISL uses advanced hardware platforms and sensors to accurately determine position and monitor the dynamic properties of the tram. The system is regularly updated, which includes data on speed limits and track conditions, allowing the tram to adapt its journey in real-time according to current conditions.

## KEY FEATURES

- Thanks to precise positioning, the system always knows the exact permitted speed – current as well as upcoming
- Gradual braking is applied in advance when approaching zones with lower speed limits
- Speed profiles can be adjusted based on time of day (i.e. lower speeds near a kindergarten during the day, higher speeds at night)
- Helps prevent derailment and supports drivers in safer operation

## POSITION-BASED SERVICES

- Automatic bell activation.
- Wheel flange lubrication.
- Door opening on the correct side.
- Automatic switching of lights on and off in tunnels.

