

Level Crossing Systems

The automatic level crossing systems of Transport System Solutions protect level crossings between road and railway traffic. A barrier prevents road traffic from entering the dangerous area around the tracks, allowing the train to pass safely. Reliability, a long lifespan and minimal maintenance are merely some of the cast-iron qualities of the level crossing systems of Transport System Solutions.



Well thought-out design, robust components

The level crossing systems of Transport System Solutions are durable down to the smallest detail and consist of the following components:

- Post with plinth
- Barrier mechanism
- Road signals
- St Andrew's cross
- Electronic bell
- Oval aluminium barrier with a maximum length of 5.25 meters, or
- Wooden barrier with a maximum length of 9.5 meters
- Counterweights

The barrier mechanism consists of a gearbox driven by a 24 or 12V DC motor. The motor shaft has a holding magnet with a one-way coupling. As long as the magnet is energised, the level-crossing barrier cannot come down. When the magnet is not energised, gravity pulls the barrier down. From an angle of 52° down to the horizontal position, the motor slows down the movement of the barrier.

low
maintenance,
high durability,
maximum
safety

In order to prevent possible damage caused by overload, a friction clutch is built in. The level crossing barriers are limited in their vertical and horizontal position by means of rubber end stops.

The barrier mechanism is housed in a cast iron box provided with a hinged aluminium cover. The box is vandal-proof, provided with a coating and locked by means of a padlock. Ventilation caps in the box prevent condensation.



LED road signals, electronic bells and aluminium level crossing barriers

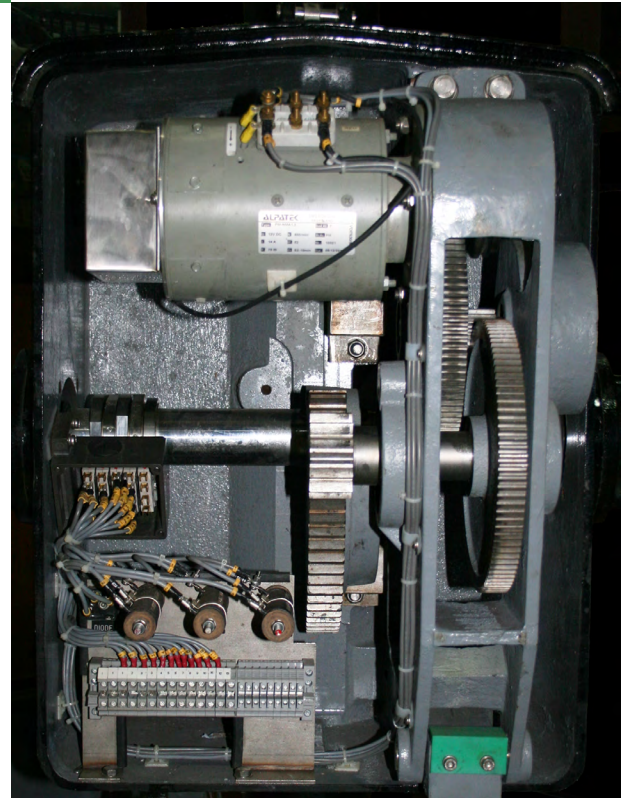
Especially for level crossing protection systems, Transport System Solutions has developed the LED crossing control signal. Using LEDs guarantees maximum reliability and safety: even if one LED group fails, the signal will remain lit and visible. Moreover, LEDs rapidly reach their maximum brightness and switch off quickly, resulting in flashing signals with much higher visibility.

The level crossing protection system is equipped with an electronic bell assembly (EBA). This unique bell has adjustable sound pressure and a day/night switch function. The bell is available for numerous connection voltages and with a number of different tones.

The Transport System Solutions aluminium level crossing barrier with integrated LED modules provides maximum safety. The barrier is designed to break off at a given point in case of a collision, thus preventing damage to the mechanism. A cable tethers the arm to the support, preventing further damage due to flying parts. LED lighting modules and retro-reflecting foil in white and red are both featured on the arm, maximising visibility. Both sides of the barrier have a permanent anti-graffiti coating.

- Complete design
- High-grade Transport System Solutions components
- Vandal-proof
- Maximum visibility thanks to LED technology
- Virtually maintenance-free
- Extremely reliable
- Long life guaranteed

Transport System Solutions also has a level crossing especially designed for crossings with cycle tracks.



Motor Specifications

Voltage rating	24 VDC	12 VDC
Motor speed	800 r.p.m.	600 r.p.m.
Current rating	4.5 A - 7.9 A	14 - 20 A

For information please contact our Sales Department by sending an email to info@transport-ss.com or go to our website www.transport-ss.com.