

BS600 Barrier mechanism

At intersections between rail and road, barrier mechanisms are used to visually and physically close off the crossings. Smooth functioning under all circumstances, reliability, a long lifespan and minimal maintenance are the core qualities of the Transport System Solutions BS600 barrier mechanism, guaranteeing the safety of road users, train passengers, personnel and goods.



safe,
reliable,
easy
to install

Safe and reliable

The mechanism of the BS600 barrier consists of a steel frame bolted by its base plate onto a pre-cast concrete plinth, ensuring maximum rigidity. The plinth has built-in cable channels.

The position of the barrier can be remotely monitored via the position contacts. A strong holding magnet keeps the barrier in the vertical position. 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. If a shorter lowering time is required, the barrier can also be driven downward mechanically. The BS600 barrier mechanism moves very rapidly, but closing and opening times are adjustable. The BS600 barrier is also available with an emergency battery.

Easy installation

The Transport System Solutions BS600 barrier mechanism has a vandal-proof, flame-retardant plastic housing.

If required, the control cabinet can be placed at some distance. The BS600 barrier mechanism can handle 12 volts, 24 volts and 220 volts.

Because the mechanical adjustments are preset in the factory, the BS600 barrier mechanism can be easily and quickly installed on site.

The BS600 barrier mechanism is available in a standard and in a modular design. The modular design has a mounting post for an electronic bell assembly (EBA), road signals, St Andrew's cross and other components. In case of a longer barrier, an extra counterweight is added to the short end of the barrier to keep it balanced.

- Easy installation due to factory presets
- Optional emergency battery
- Adjustable opening and closing times
- Long life
- Low maintenance
- Low energy consumption



Would you like
to know more about
the services, products or projects of
Transport System Solutions?

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

Specifications

Height of main shaft	1100 mm from base plate
Height of top of barrier	1000 mm from base plate
Operation	Automatic remote
During power outage	Normal: barrier closes by means of gravity Optional: barrier goes up and stays open
Supply voltage	24 V DC
Required electrical current	< 15 A
Quiescent current	0.1 A (holding magnet in vertical position)
Temperature range	-25 °C to +60 °C
Degree of protection	IP44
Fastening	Crank lock
Weight	Main Housing: 100 kg Barrier: 35 kg (excluding counterweight)
Barrier length	Max 6000 mm from tip to main shaft

Integrated LED lighting	24 V DC
Interlock of open position	With hook
Fail-safe dropping	Up to upper limit of wind force 8 (21 m/s)
Vandalism load for barrier	Vertical max: 100 kg (at barrier length of 6 m) Horizontal max: 75 kg (at barrier length of 6m)

Optional

- Emergency battery with battery charger
- Supply voltage other than 24 V DC
- Shear pin construction