Product group level crossings

Level crossing installation

New modern design with fibreglass casing

Boom gates are used to close level crossings both visually and physically with their boom arm. To function under all circumstances without problems is a requirement to guarantee the safety of road users, passengers, staff and materials. With one of VRS Railway Industry's new modern level crossing installations you have sufficient certainty that you posses a level crossing installation which satisfies these requirements without problems.

Safe and reliable

VRS Railway Industry's BS-gate has a vandal-resistant and fire-resistant synthetic casing. The base of the BS-boom gate consists out of a steel frame with a base plate that ensures maximum rigidity is achieved. The foundation consists of a pre-manufactured concrete element with cable bushings casted in. The mechanism to bring the boom arm in motion is built into the frame.
The BS boom gate operates with 12 volt, 24 volt and 220 volt. Due to the position contacts one can see the boom arm's position from distance. Normally gravity causes the boom arm to go down. However, if a shorter descending time is required, the boom arm can also be propelled downwards. The closing and opening times are adjustable, note that the BS-boom gate is very fast. For all applications applies that the boom gate can be supplied with an emergency battery.

Quickly to install

Because all the mechanical settings are performed in the factory, the BS boom gate can be installed quickly on location. The boom gate can be supplied in a standard and modular version. The modular version has a mounting pole for an electronic bell (EBA), XC signals, a St Andrews cross and other components. If the boom arm length requires it, a counterweight will be added to one side of the boom arm to keep it in balance. The BS gate is equipped with an aluminium boom arm with optional integrated LED-modules. The boom arms are available in diverse sizes. The maximum length of a boom arm for the BS gate is 7.25 m. The aluminium boom arm is provided with a break construction. A cable between the boom arm and the support prevents that the boom arm is swung away by the force of a collision and passersby can get hurt. The boom arm can additionally be supplied with a grate.

VRS Railway Industry bv

a VolkerWessels company

Advantages of modern level crossing installation:

- Quick installation due to factory presetting;
- Longevity;
- Low maintenance;
- Low energy use;
- Great visibility;
- Equipped with lightweight aluminium boom arm;
- Safe due to special break construction.

Product specifications

Main measurements:

Height main axis	:1153 mm with respect to the bottom of the foot
Height top boom arm	:~1043 mm with respect to the bottom of the foot

Performance:

Nominal descending time	:6 to 8 sec. adjustable
Ascending time	:min. 6 sec., depending on the boom arm's length
Durability	:1 x 106 movements

Specifications:

Control	:automatic from distance
In case of power cut	:standard: gravity brings boom arm down
	:option: boom arm goes up and remains open
Supply voltage	:24V DC / 12 D / 230 AC
Used energy	:< 25A / < 50A / < 6A
Quiescent current	:1A (retain magnet in vertical position)
Temperature range	:-25°C to +60°C
Protection classification	:IP 44
Closing type	:handle lock
Weights	:frame: 100 kg
	:boom arm: 35 kg (counter weights excluded)
Boom arm lengths	:maximum 7160mm from top to axis (boom arm length 6625mm)
Integrated LED lighting	:24V DC
Latching open position	:with hook
Fail-safe descending	:to a maximum of wind force 8 (21 m/s)
Overload by vandalism	:max. vertically:110 kg (with boom arm length of 7.25m) max. horizontally 75 kg (with boom arm length 7.25m)

Options:

- Battery with charger