



Rail Safety Systems B.V. (rail) track safety barrier

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Side protection railings for track contstruction and maintenance work. Removable and adjustable version for tracks. Specially insulated version for third rail tracks.



User Manual

A: Purpose of the device

In most cases, local and European directives stipulate that people working in the danger zone of tracks must be protected from danger by means of side guardrails against moving rail vehicles. The purpose of the RSS product is to install an effective safety side when working in the dangerous area of tracks.

All user manuals and support information can be found on the website of Rail Safety Systems: <u>https://www.rss-rail.com/support</u>







The RSS system is suitable for rail track profiles S49, UIC, and UIC60



B: Individual parts of RSS product

GRP stanchions with locking pin





GRP Handrail



Remarks:

When using the tubes, transport these as horizontally as possible. When transporting vertically, always reckon with possible obstacles such as overhead lines, masts, etc.

Practical implementation:

C: Application of RSS product

The possibility of adjusting the stanchions between te danger area zone A and zone B is shown schematically below. The distance from the center line of the track to the railing can be adjusted between 1.95 and 2.55 meters in increments of 0.10 meters.

The insulated stanchion is specially designed for third rail tracks. It is not suitable for switch tracks. The normal RSS track safety barrier cannot be applied to third rails.

The insulated track safety barrier for third rail is not certified for normal rail tracks. The existing lifting and lowering module (elevation compensation module) should not be applied to the fully insulated third rail track safety barriers.

In addition, all safety measures, applicable regulations and standards for work safety in the danger area of tracks must be observed. If necessary, security guards must also be set up. The permissible working temperature for the track safety barrier is -20 to +80 degrees Celsius. Railway grounding is required from a Voltage of 5 kV (AC) or 7 kV (DC).

D: Frequent product check and maintenance

Check and maintenance:

The RSS track safety barriers should be checked by an expert once a year. Since all individual components are made of durably assembled and processed materials, the maintenance of the product requires minimal effort.

In case the track safety barrier is used on tracks for longer periods of time, we recommend to do a daily visible inspection of the product.

Frequent checks:

Prior to each new installation of the track safety barrier, the individual parts must be checked for possible defects such as dents and or damages to the stanchions and handrail tubes. Check section B to oversee the individual parts of the product. No dirt and/or metal parts should stick to the magnets. If necessary, these should be removed from the magnets with a cloth. Also check whether the magnet can be moved up and down in its housing and whether the housing is allowed to tilt relative to the stanchion. If the housing is damaged or cracked, it must be replaced.

The identification plate shows the name of the manufacturer, the serial number and the year of production. Approximately 100 mm below the clamping bracket on the stanchion one can find a stamped serial number.

E: Installation and dismantling of the product

All assembly work during the installation and removal of the track safety barrier must be coordinated in advance with the locally responsible person in order to define appropriate alternative measures (operational and/or technical). Adequate personal safety must be ensured during installation, dismantling and relocation of the product.

Prior to installation:

Adjust the stanchion to the required distance. The distance can be adjusted in increments of 0.1 meters between 1.95 and 2.55 meters.

Check all individual components of the product for damages and possible defects. Check in advance whether the rail tracks are equipped with sound-absorbing rubber in the rail web. In this case, the side track safety barrier cannot be used.

Measure the distance between the center lines of adjacent tracks. If this is less than 4 meters, additional precautions may need to be taken.

Please make sure that the distance between sensors and magnets is at least 500 mm on both sides (reference: a forearm length with your hand).

Tables 1 and 2

Installation:

At first, the vertical stanchion bar of the transport position is erected in the position of use.

Attach the stanchion with magnet to the web of the rail at the position of a sleeper so that the horizontal bar then rests on the sleeper. In addition attach a second stanchion within 3 meters of the first stanchion. Then fasten two handrail tubes on top of each other in the clamping brackets of the stanchions. Continue building the railing in both directions.

During assembly, all product components must avoid contact with surrounding elements.

The track safety barrier must not be electrically interconnected, i.e. the horizontal components must be electrically isolated from the vertical stanchions.

Dismantling:

Storage and transportation

After dismantling from the rail tracks, the stanchions can be placed and stored in a transport cradle.

Storage/transport cradle for stanchions.

Strorage/transport cradle for tubes.

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This product is designed for use in a commercial work environment.

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Appendix 1:

Type S285 Stanchion Third Rail – adjustable

Type S212 Handrail tube – fiberglass

GRP Glass fiber Reinforced Polyester