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Product overview

□ Light rail switch point technologies

– **Vehicle detection system**

- Track circuits, trap circuits, location electrical coil

– **Switch point motors**

- Electric and manual for Lightrail

– **Signalling**

- Signalling for traffic over a switch point of crossroads

– **Switch point central comand**

- Managing traffic over a switch point from detection data.

– **Switch points, signalling & central command for depots**

- Complex system with several switch points and signalling, often combined with automated depot management system



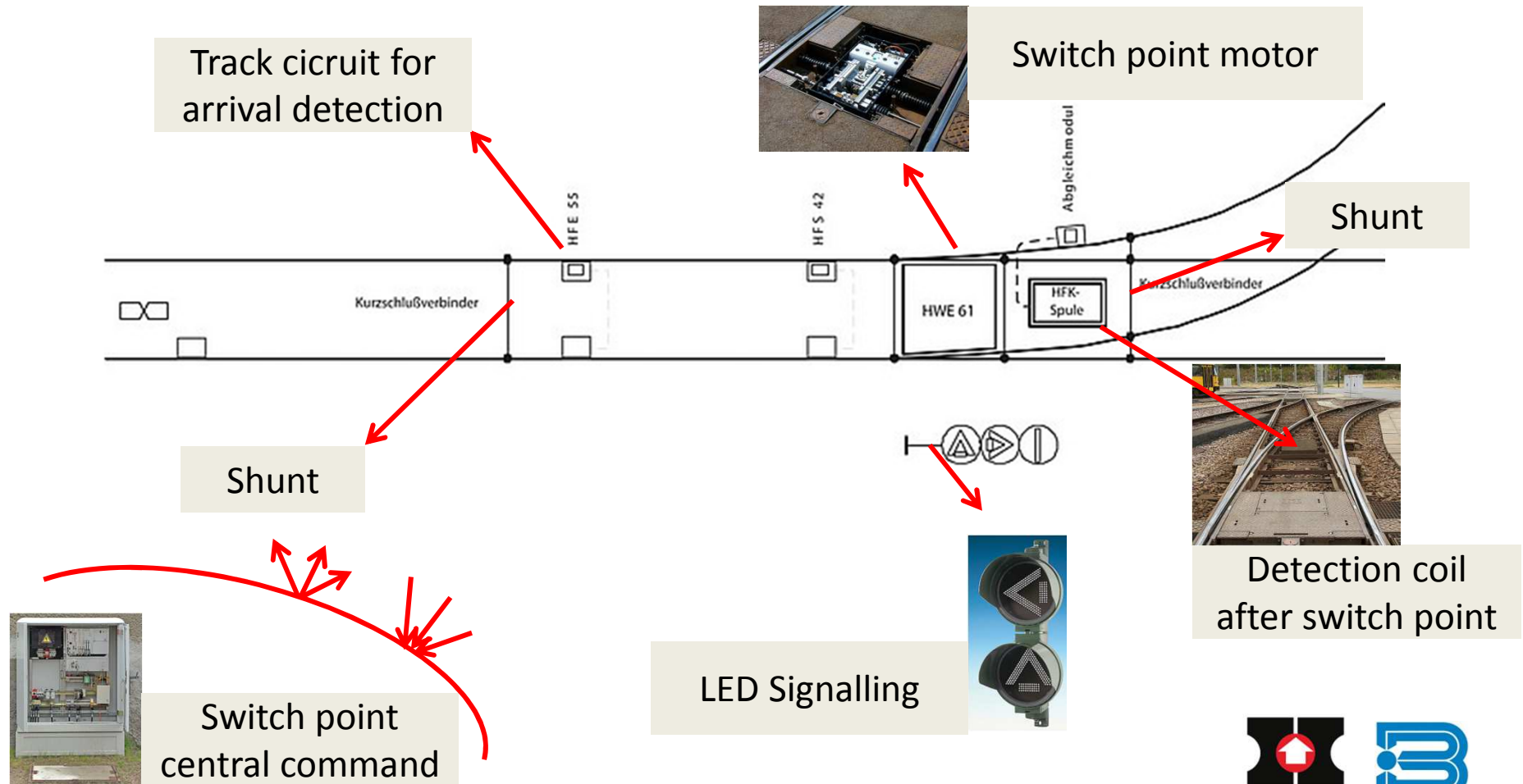


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Product overview: single switch point

Single switch point with **SIL 3 security level**





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Product overview: switch point motors

□ Switch points

- modular, efficient and safe: state of the art technology

Safety all along the line

Safety, performance and economic efficiency – these are the characteristics of HANNING & KAHL point machines. Modular design means unsurpassed versatility. HANNING & KAHL point machines can be easily adapted to operators' requirements upon installation and later, too, to meet changing needs. The advantages at a glance:

- Three types of point machine are available: electro-magnetic, electro-hydraulic or electromotive. All common operating voltages can be catered for.
- Compact design: can be deployed in all gauges in concrete-based prefabricated track, in open ballast and on bridges
- Fast, simple installation
- Modular construction: can be supplied for all point types in functional variants
- Extremely low maintenance
- Patented and verified safety technology
- Optional equipment with FADIS® route diagnosis components for condition-based maintenance
- Can be adapted to earthcases made by other manufacturers
- Mechanical manual setting





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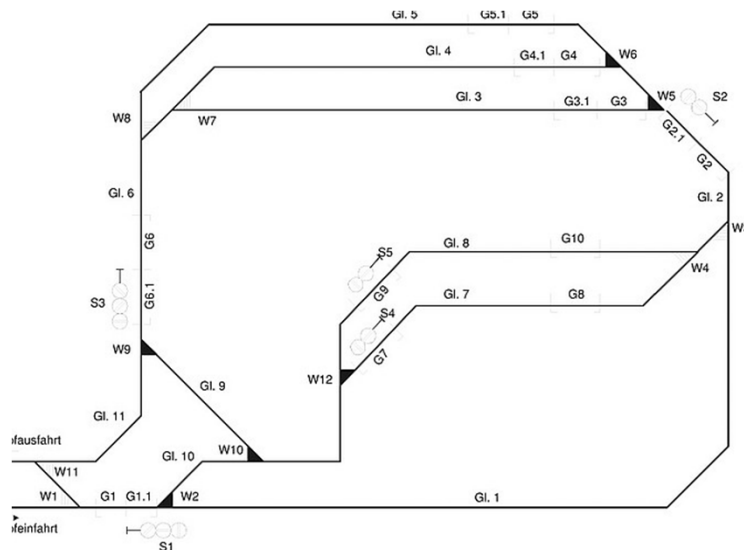
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Product overview: Switch point system for depots

□ Depots installation

– Same elements as in single switch point but...

- Much bigger amount of elements
- More complex, more expertise
- Combination with management system to optimise operations of depot





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Product overview: Special products

- For Light rail in industries.

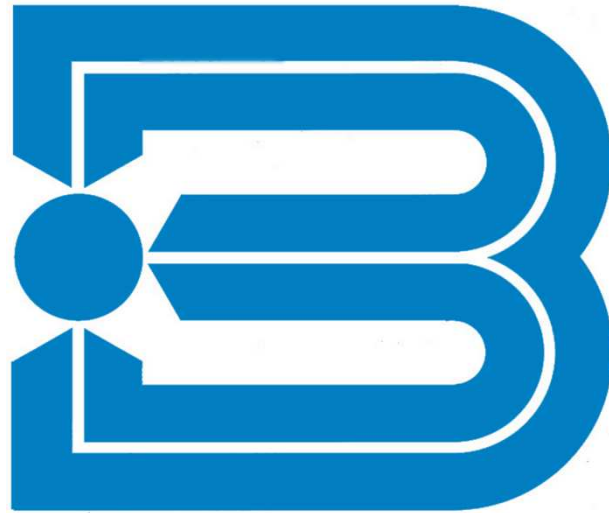


Demanding Requirements – Competent Solutions

Technical equipment deployed in container terminals is exposed to extreme conditions. Engineers and operators all over the world are convinced by the legendary stability of HANNING & KAHL point machines. For special requirements: all components, including the point controller and signals, are embedded in the ground and can be crossed by heavy road traffic. Embedded installation ensures free transportation routes and prevents vandalism and unauthorized activation. The heart of the unit is the proven HANNING & KAHL point machine of the 61 series with electro-hydraulic drive and integrated point controller. To start the point setting procedure, the point controller is activated via a foot actuator. The resulting point position is signalled by two LED indicator lamps.



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