

## Magnet Limit Switch Switching assembly

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### Order number

03-S211-0052

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## 1 General

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**Attention!** Connection and maintenance of the magnet end switch must be carried out exclusively by qualified specialists, that are familiar with the relevant instructions. The safety regulations have to be observed as well.

The magnet limit switch is used to switch off the travel order for the motorized cable trolleys in their final positions. The switch-off takes place in the direction to land side only and is independent of the crane main trolley. The switch-off secures a proper operation of the festoon system even under extreme conditions.

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## 2 Assembly

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Each motorized cable trolley is associated with a specific magnet limit switch. The mounting positions of the motorized cable trolleys are defined in the system drawing.

The first motorized cable trolley (MCT) is associated with the magnet limit switch of the switching assembly 03-S211-0052 page 1 with the designation „Trolley 1“ etc.

The magnets are already pre-mounted to the motorized cable trolley ex works according to their position.

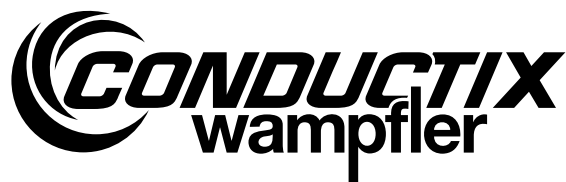
Trolley 1 - south;

Trolley 2 - north;

Trolley 3 - south; magnet with lower height level

The magnet switches on the track beam have to be mounted accordingly in the right height level. The height level (distance to magnet) is very important for proper switching of it. Please have a look that during moving (pass) of trolley 1 under limit switch 3 it will have no collision between magnet and limit switch.

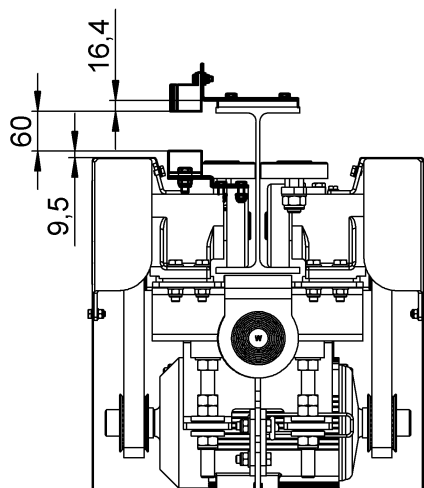
# Mounting Instruction



## Magnet Limit Switch Switching assembly

### Land side

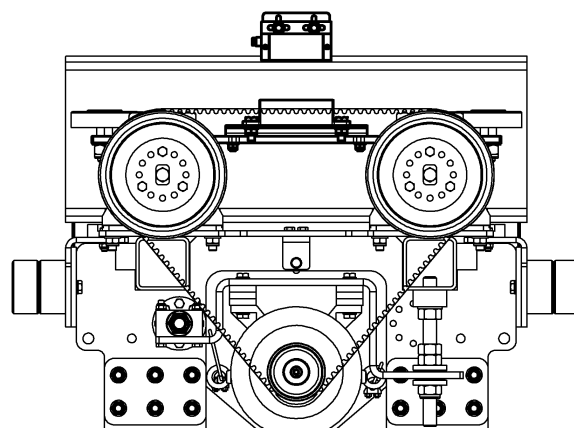
#### Wagen 1 / Trolley 1



Blickrichtung von Endklemme Richtung Mitnehmerklemme  
View of sight from end clamp to towing clamp

Wasserseite / water side

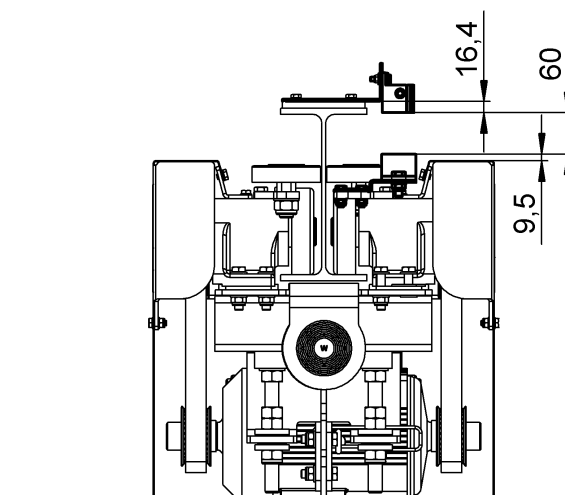
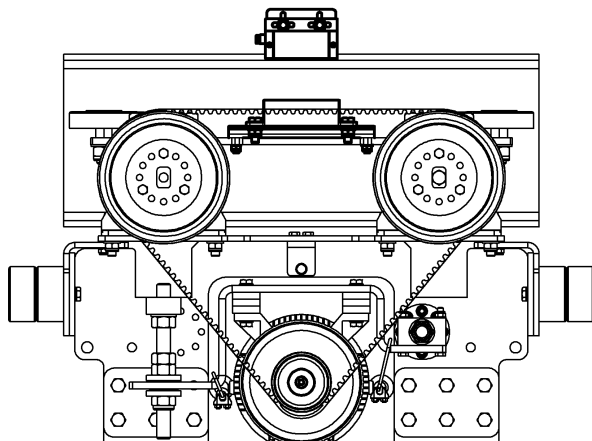
Landseite / land side



#### Wagen 2 / Trolley 2

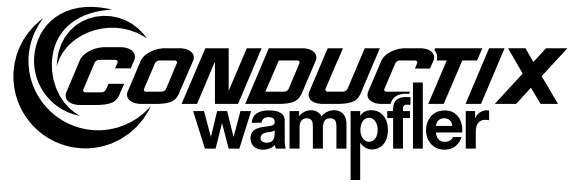
Landseite / land side

Wasserseite / water side



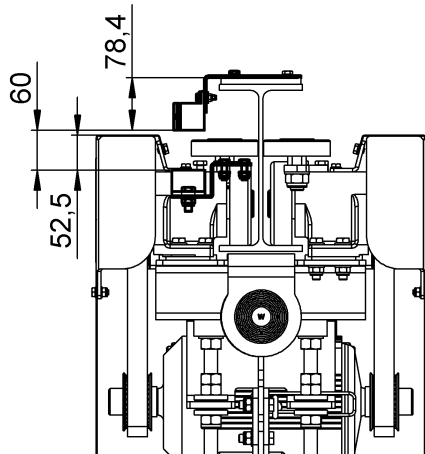
Blickrichtung von Endklemme Richtung Mitnehmerklemme  
View of sight from end clamp to towing clamp

# Mounting Instruction



## Magnet Limit Switch Switching assembly

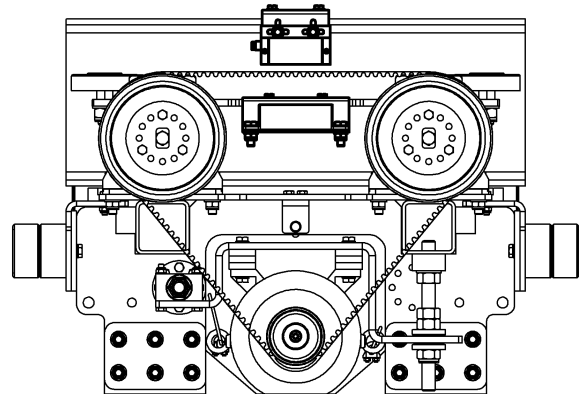
### Wagen 3 / Trolley 3



Blickrichtung von Endklemme Richtung Mitnehmerklemme  
View of sight from end clamp to towing clamp

Wasserseite / water side

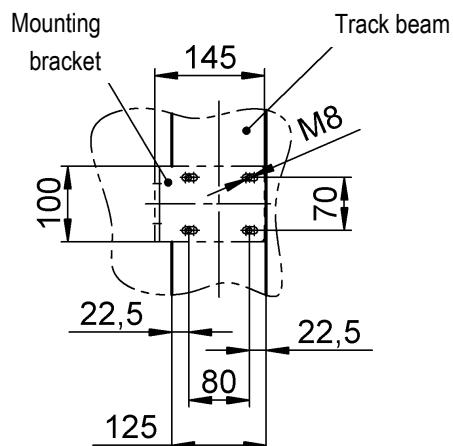
Landseite / land side



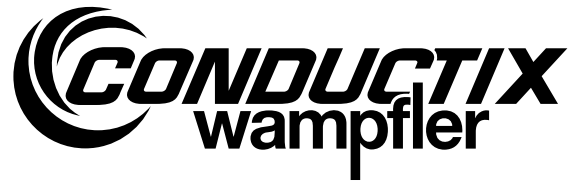
**Attention!** The assembly positions of the magnet limit switches have to be carried out very exactly, since there are different switching distances that are applied.

The fixation of the magnet switches at the track beam is made with mounting brackets. For the assembly it is important to install a drilling scheme to the track beam according to the following sketch (next side). As shown in the drilling scheme there are two possibilities. On the right you can see the possibility with the tapped hole M8 and on the left the one with the through-holes, where the screw is fastened with a safety nut. With the slotted holes at the mounting bracket the magnet switch can be readjusted according to the motorized cable trolley during the assembly.

### Drilling Scheme



# Mounting Instruction

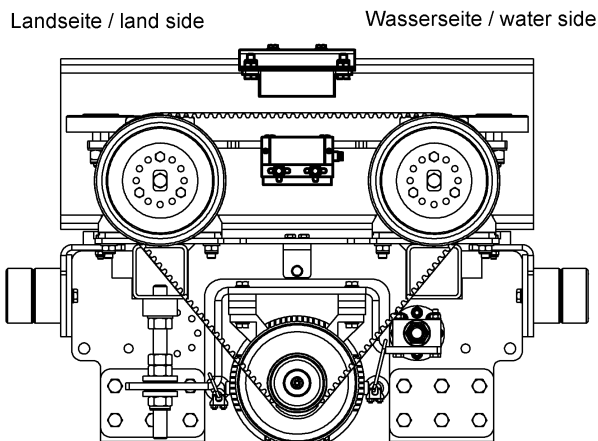


## Magnet Limit Switch Switching assembly

The end switches on the trolleys have to be mounted accordingly in the right height level. The height level (distance to magnet) is very important for proper switching of it. Please have a look that during moving (pass) of trolley 1 under limit switch 3 it will have no collision between magnet and limit switch.

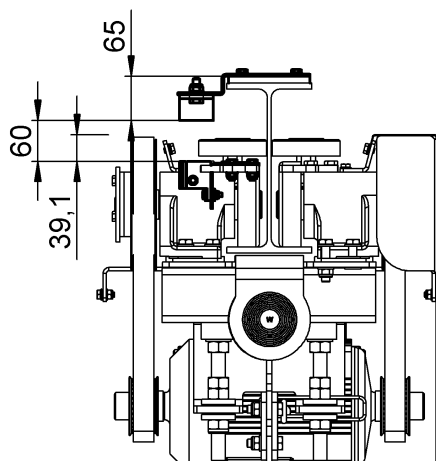
### Water side

#### Wagen 1 / Trolley 1

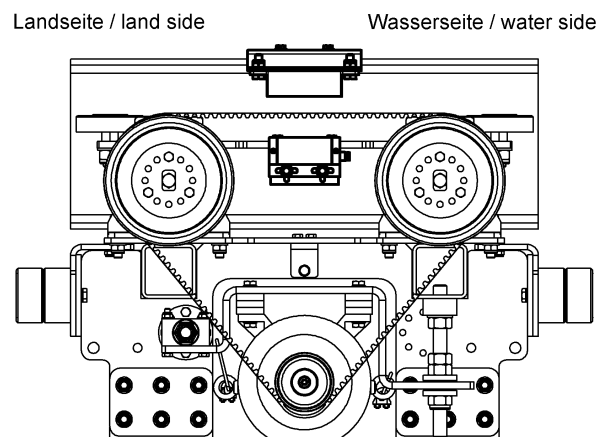


Blickrichtung von Endklemme Richtung Mitnehmerklemme  
View of sight from end clamp to towing clamp

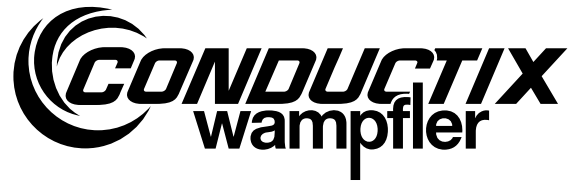
#### Wagen 2 / Trolley 2



Blickrichtung von Endklemme Richtung Mitnehmerklemme  
View of sight from end clamp to towing clamp



# Mounting Instruction

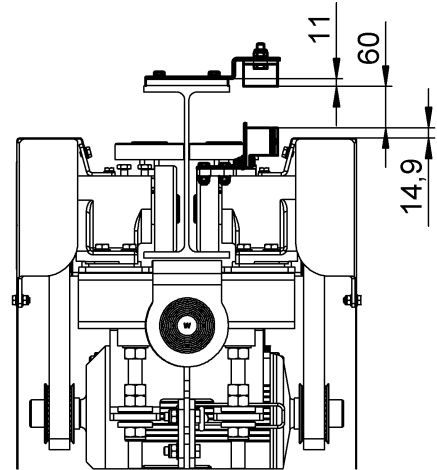
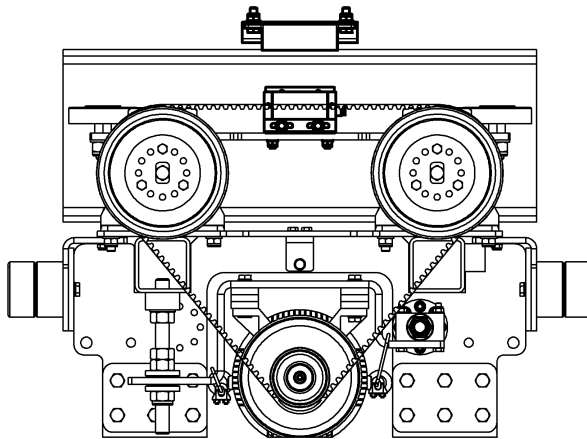


## Magnet Limit Switch Switching assembly

### Wagen 3 / Trolley 3

Landseite / land side

Wasserseite / water side



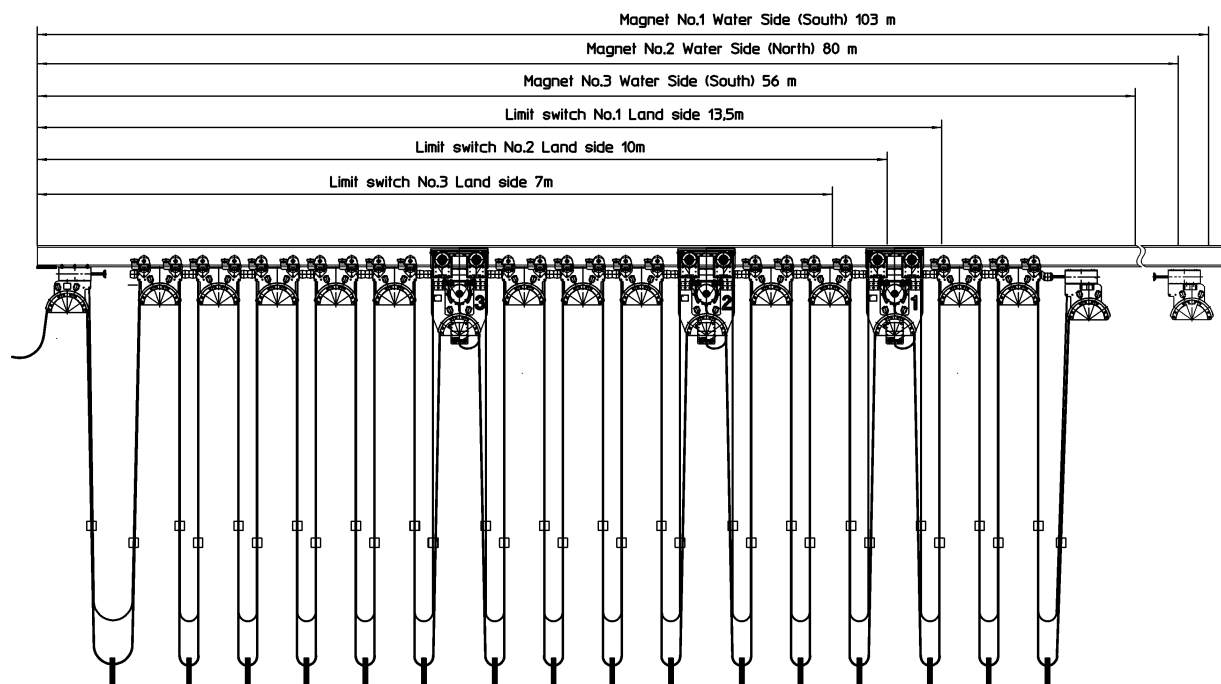
Blickrichtung von Endklemme Richtung Mitnehmerklemme  
View of sight from end clamp to towing clamp

### Position of the magnet limit switches

The positions of the magnet limit switches for land and/ or sea side you will find on the system drawing for the festoon system.

Landseite / land side

Wasserseite / water side



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### 3 Electrical connection

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The supply voltage for the limit switches is provided at the terminal block bar by the control. See circuit diagram.

The cable required for the electrical connection of the magnet switches is not included in the supply schedule by Conductix-Wampfler and has to be realized by the customer.

**Conductix-Wampfler GmbH**  
Rheinstraße 27 + 33  
79576 Weil am Rhein - Märkt  
Germany

Phone: +49 (0) 7621 662-0  
Fax: +49 (0) 7621 662-144  
[info.de@conductix.com](mailto:info.de@conductix.com)  
[www.conductix.com](http://www.conductix.com)

**UK  
CA**

Importer for the United Kingdom:  
**Conductix-Wampfler Ltd.**  
1, Michigan Avenue  
Salford  
M50 2GY  
United Kingdom

Phone: +44 161 8480161  
Fax: +44 161 8737017  
[info.uk@conductix.com](mailto:info.uk@conductix.com)  
[www.conductix.com](http://www.conductix.com)