



ACCURATE  
ROBUST

# CRANE AUTOMATION AT CONTAINER PORTS



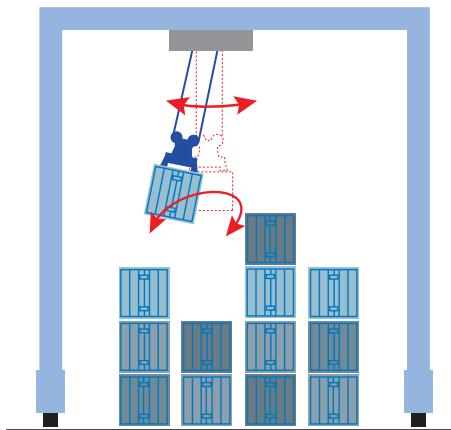
# ANTI SWAY SYSTEM



To provide a dynamic sway automatic control of the spreader on RTGs, Arck Sensor and Schneider Electric supply a full solution package.

This solution will be a key factor to improve your time operation and increase your productivity whatever the environmental condition over your installation.

The driving assistance system was developed for hoisting systems such as overhead bridge crane (trolley and/or gantry), Ship To Shore (trolley), Rubber Tyre Gantry (trolley), in order to handle containers, coils, slabs, etc...



### Benefits and gain: decisive advantages

- Arck Sensor products will:
- Increase productivity.
  - Reduce containers transfer cycle times and operations.
  - Increase safety for people, materials and equipment.

### Accurate and Robust:

The patented sensor technology, its specific design and ruggedness are approved for severe environments; ambient light immunity.

[www.arck-sensor.com](http://www.arck-sensor.com)



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Arck Sensor is a French company specialized in optical measurement in harsh industrial environments. Our mission is to provide the most robust and accurate sensors for container ports and heavy industries in the frame of automation and safety concerns. Since 1998, Arck Sensor has been constantly improving its technology to deliver long term solutions for major container terminals and metal industry companies, world-wide.

The Electronic Anti-Sway and Semi-Automation is the result of a long and extensive collaboration with Schneider Electric.

## OUR EXPERTISE IN CONTAINER PORTS

### Load Movement Measurement

- Anti-Collision for Cranes and Vehicles
- Truck or Straddle Carrier Positioning
- Container Detection Prior to Handling or Stacking
- Boom to Vessel Anti-collision

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## ANTI-SWAY SYSTEM



**SIRRAH®  
SWAYTEL®**

### System presentation

Arck Sensor solution is composed of: SWAYTEL®, the driving assistance system designed & licensed by Schneider Electric + SIRRAH® sensors and a smart emitted infrared LED source (BMU Beacons) designed by Arck Sensor.

### How does it work?

SWAYTEL® allows sway and/or positioning control on trolley. The sway is permanently controlled during motion. Structure of cranes will be less stressed and the global crane cycle time to transfer a container will be significantly reduced. With an automotive trolley, it allows a direct arrival on target position of the trolley. Thanks to the SIRRAH® sensor performance, the sway is limited to + or - 5 cm for a 40 meters load height within maximum one sway cycle.

