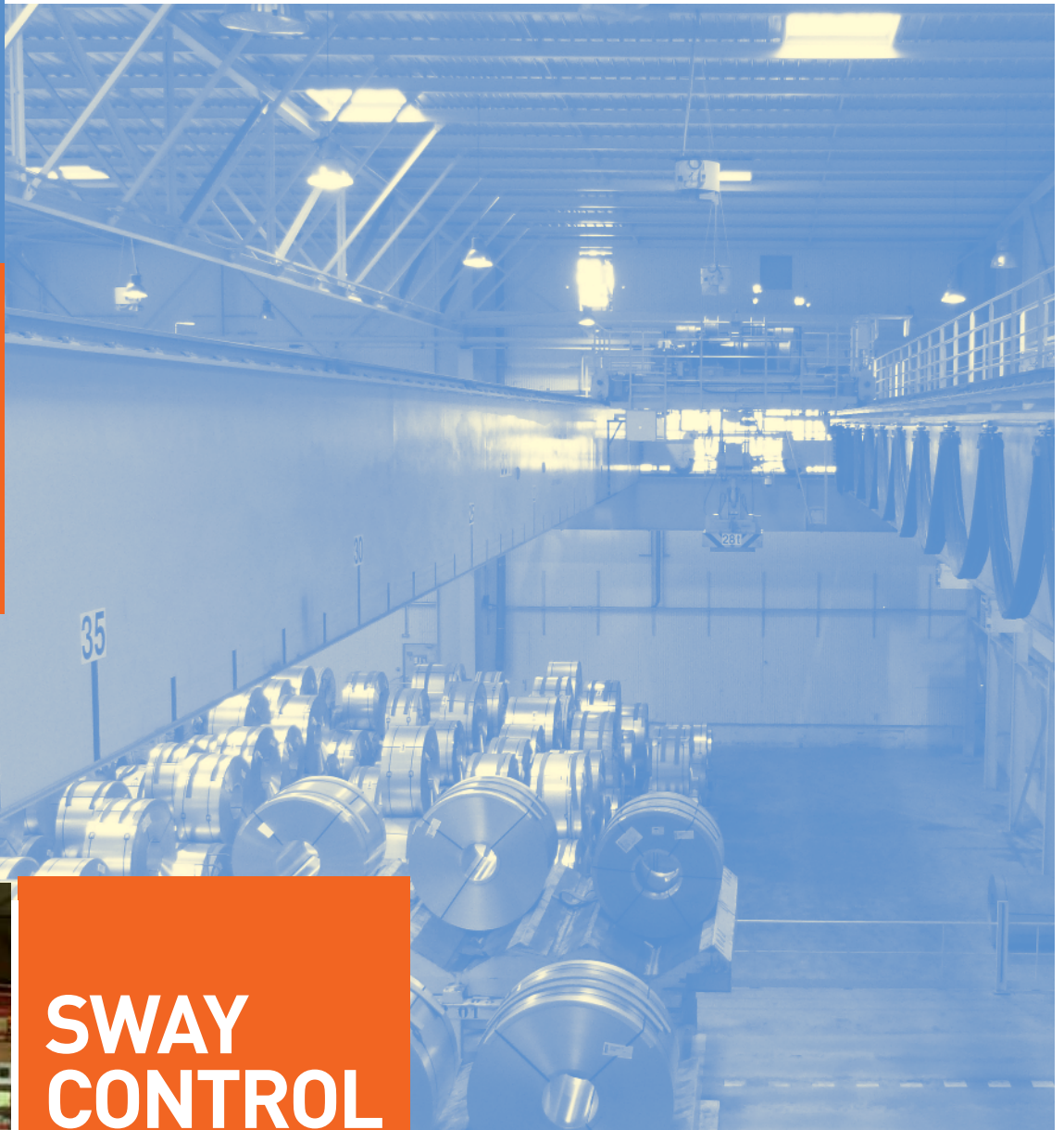


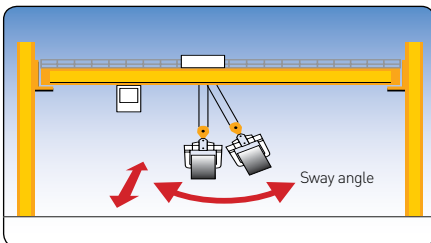
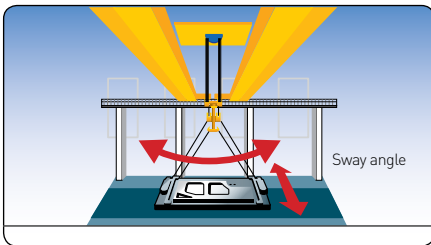


ACCURATE  
ROBUST

## CRANE AUTOMATION AT STEEL WORKSHOP



## SWAY CONTROL



Products of SIRRAH® range enable measurement of sway movement in both axis of coil or slab being handled with overhead bridge cranes.

Sway movement measurement is made by a SIRRAH® sensor which evaluates angles of infrared beacon located on grab's head-block.

LS08 SIRRAH® sensor positioned downwards is vertically situated in the trolley and beacon is located upwards on tong's head-block.

An associated computer or PLC (not provided by Arck Sensor) can regulate the swaying movement.

As an alternative, Arck Sensor provides a display to help the crane driver handling the load in a safe way.

TS11 SIRRAH® sensor is useful when the crane or OHBC has no power supply on its hook or tong.

### Arck Sensor products will:

- Increase productivity
- Reduce coils or materials transfer cycle times and operations
- Avoid to damage the coils when lifting
- Increase the life expectancy of the bridge crane

### Accurate and Robust:

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

# ARCK SENSOR

## ACCURATE ROBUST

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.

## OUR EXPERTISE IN CRANE AUTOMATION AT STEEL WORKSHOP

Load movement

- Area restriction
- Anti-collision

### CONTACT US

22, rue Hermes  
31520 RAMONVILLE ST AGNE  
FRANCE  
Phone : +33 5 34 31 86 44  
contacts@arck-sensor.com



**SIRRAH®  
LS08**

### System presentation

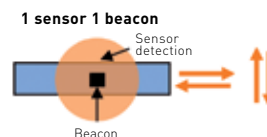
The solution is composed of SIRRAH® sensors and a smart emitted infrared LED sources (BMU Beacons) designed by Arck Sensor.

### How does it work

SIRRAH® sensors enable the evaluation of view angles of beacons located on the crane's hoist.

SIRRAH® pointing directly downwards, is situated in the trolley with one or more beacons located top wards on the hoist.

### Sway Control



When the customer needs to control only the sway, one SIRRAH® sensor and its associated beacon are installed.

### Sway & Skew control

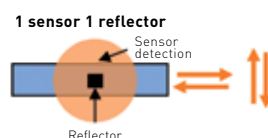
For Skew control, more accuracy is needed. Arck Sensor is able to adapt the number of beacons to meet the coils, slabs requirements of precision. The distances between beacons are optimized to reach better skew accuracy all over the working range (corresponding to the highest and lowest position of the hoist).

One sensor in the trolley with two beacons on the hoist is the cost effective solution.



**SIRRAH®  
TS11**

TS11 SIRRAH® sensor is useful when the crane or OHBC has no power supply on its hook or tong.



In its TS11 version, SIRRAH® uses an integrated infrared light supplied by LEDs encircling the optical window of the sensor. It uses a plastic passive reflector to materialize the grip tool. A 10 cm\*10 cm retro-reflector surface is necessary to get a good working.

### SWAYTEL®

If a complete solution for dynamic sway automatic control is requested, 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.

