



ACCURATE
ROBUST

CRANE AUTOMATION AT STEEL WORKSHOP

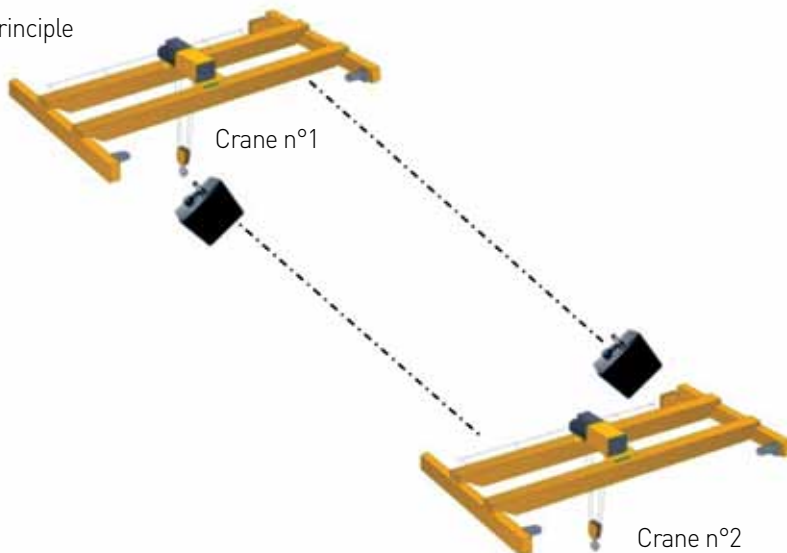


ANTI COLLISION

The Radar based DISTER® is used for anti-collision system between Overhead Bridge cranes travelling on the same runway.

The Micro wave sensors detect the opposite cranes and allow 2 distance programs: one for slow down the crane, one for stop.

Working principle



Arck Sensor products will:

- Increase safety for materials and equipment

Accurate and Robust:

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

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 Measurement

■ 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

ANTI-COLLISION



DISTER®

System presentation

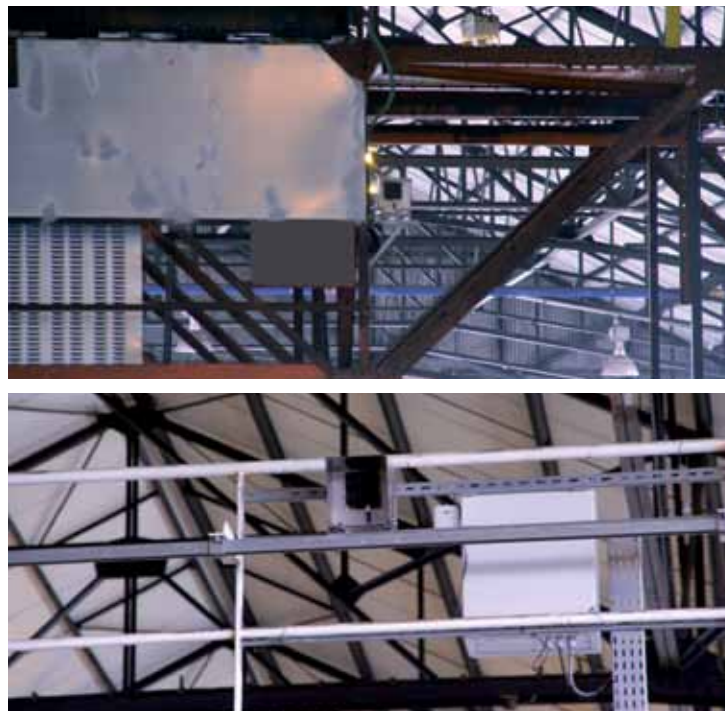
DISTER® is a Radar working in the frequency range from 24,000 – 24,250 GHz. The antenna characteristics is 11° (+/- 5,5°) vertical and horizontal. The device is able to detect moving and stationary objects up to a distance from 40m. The adjustable distance is in 1m steps from 4 to 40m.

How does it work?

The radar has a self test checking routine. After power on and during operation this program will check all functions of the system. Failures will be reported. DISTER® has three open-collectors, one for slow down the crane, one for stop. The third output can be used as open collector or as analog output. The programming tool allows the adjustments of the following parameters:

- Sensitivity
- Polarity of outputs
- Threshold for slowing distance
- Threshold for stop distance.

DISTER® must not be used for personal safety or emergency off functions



Option:

You can increase your level of safety using a relaying system between the cranes in order to create a redundancy .

Working principle for a Class 3 safety system (following norms EN1050 and EN954-1) – Redundancy on E and S:

