

GIGASENSE[®]

Anti-Collision System

for Track Bound Cranes



GIGASENSE[®] is a fail-safe (microwave technology) anti-collision system for track bound cranes (EOT) or similar equipment in tough industrial environment.

GIGASENSE anti-collision system is easy to install, robust, maintenance free and comes with built in self diagnostic functions to monitor the system.

TECHNICAL DATA

WORKING RANGE:

2 – 25 m (up to 40 m as option)

SPEED RANGE:

0.1 – 5 m/s relative speed between two moving cranes

RELATIVE SPEED DEPENDENCE:

The alarm limits can be increased to 0 – 7 m per 1 m/s

LOWEST ALARM SPEED:

0.1 m/s (down to 0.05 m/s as option)

RELAY OUTPUTS:

3 pcs. altering relays (250 VAC / 8A)

TEMPERATURE RANGE:

-25°C – +70°C

SUPPLY VOLTAGE:

230 VAC alt. 120 VAC 50/60Hz (24 VDC as option)

TRANSPONDER BATTERY:

Lithium 1 Ah, lifetime > 10 years

TRANSMITTER FREQUENCY:

9.4 - 10.7 GHz (country specific)

TRANSMITTER POWER:

< 0.5 mW

WEIGHT / DIMENSIONS

Antenna:

4.0 kg / 428 x 350 x 265 mm

Relay Box:

0.8 kg / 175 x 125 x 75 mm

GROSS WEIGHT / DIMENSION

for a packed Unit A + Unit B:

12.5 kg / 370 x 370 x 330 mm

CE 0682



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FUNCTION

The GIGASENSE anti-collision system controls and protects track bound cranes or similar machinery. Each crane has its own unit (A or B), which consist of an active antenna and a relay box.

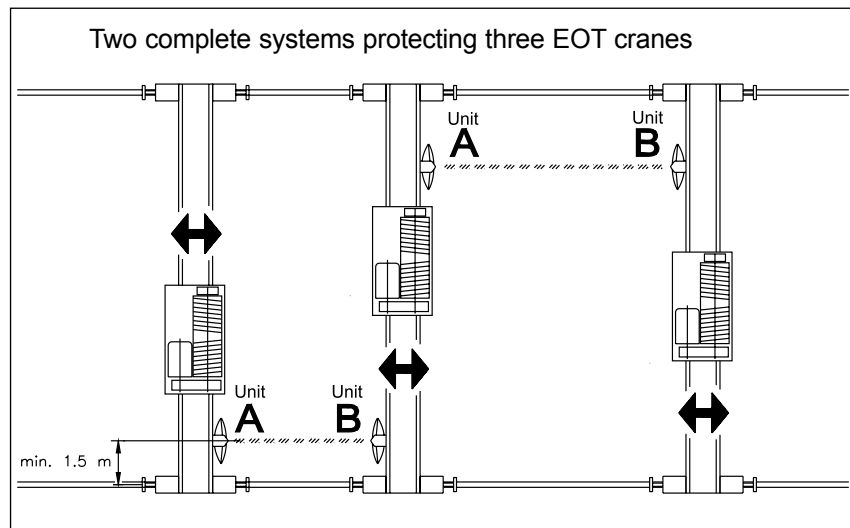
The antenna sends a microwave signal to the opposite unit. By using Doppler technique, the distance and relative speed are calculated.

The output from the electronics activates the preset relays in the relay box.

There are 3 relays in the relay box: Relay 1 = Warning (speed reduction).

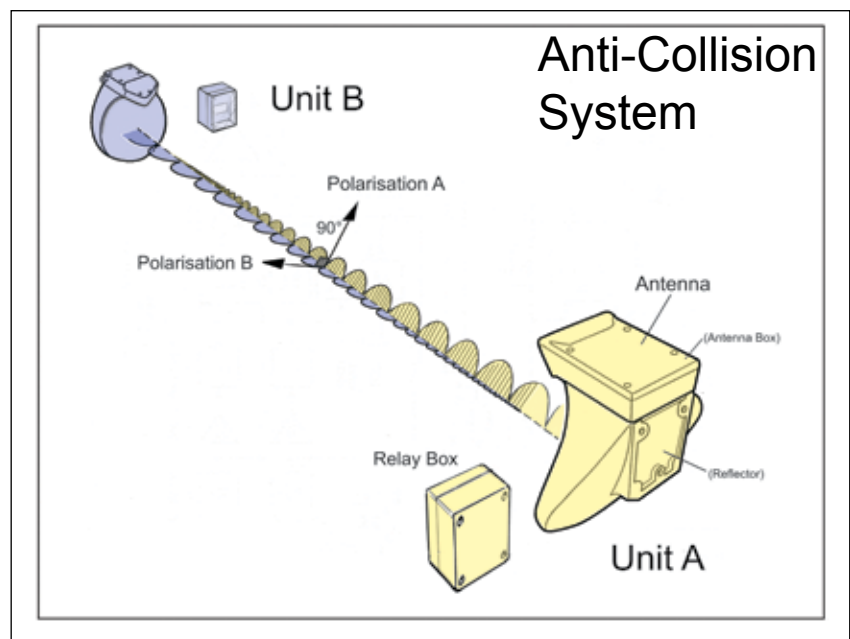
Relay 2 = Stops crane movement.

Relay 3 = Function control.



SAFETY

- Helps protect people and property.
- The units have a built in self diagnostic function that monitors the performance of the unit every three seconds.



ECONOMY

- Cuts crane repairs, downtime and costs.
- Easy and quick to install.
- Maintenance free.