

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 DISTANCE:
2–25 m (up to 40 m as option)

SPEED RANGE:
0.1 – 5 m/s relative speed
between two moving cranes.

SPEED DEPENDENCE:
The alarm limits can be
increased to 0 – 7 m per m/s
relative speed.

LOWEST ALARM SPEED:
0.1 m/s (down to 0.05 m/s
as option).

RELAY OUTPUTS:
3 pcs. altering relays
(2000 VA/8A)

TEMPERATURE RANGE:
-25°C – +70°C

SUPPLY VOLTAGE:
230 VAC alt. 115 VAC
(24 VDC as option)

TRANSPONDER BATTERY:
Lithium 1 Ab, lifetime > 10
years.

TRANSMITTER FREQUENCY:
9.4 – 10.7 GHz
(country specific)

TRANSMITTER POWER:
< 0.5 mW

DIMENSIONS & WEIGHT:
Antenna 428x350x265 mm,
4.0 kg
Relay box 175x125x75 mm,
0.8 kg

GROSS WEIGHT & DIMENSION:
37x37x33 cm,
weight 12.5 kg
(Consists of one pair, A+B)

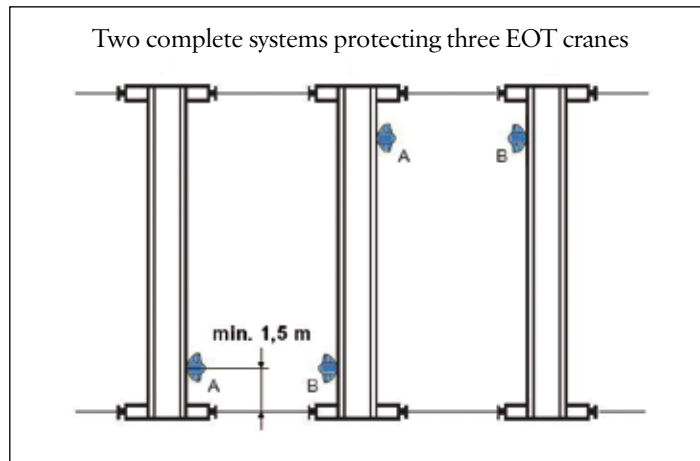


FUNCTION

GIGASENSE anti-collision system controls and protects track bound cranes or similar machinery e.g. distance, speed and direction. Each system (A or B) consists of an active antenna and one relay box.

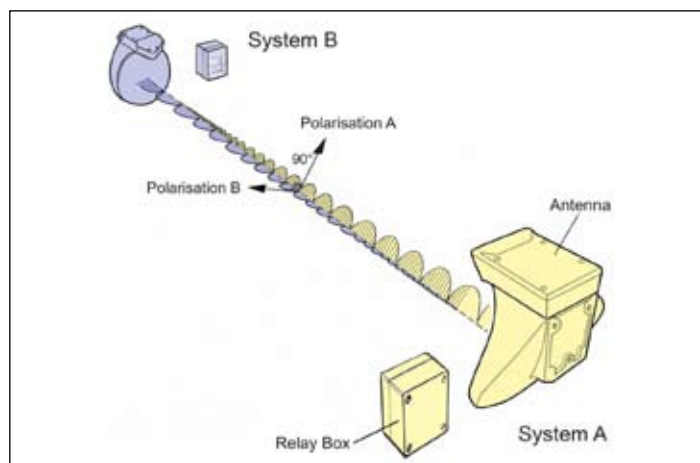
The antenna sends a microwave signal to the opposite system. By using Doppler technique the distance, speed and movement can be controlled and managed from the relay box.

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 systems have a built in self diagnostic function that monitors the system performance every 3:rd second.



ECONOMY

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

GIGASENSE
Force Measurement

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