EGOpro SAFETY ANTI-COLLISION

Bridge crane anti-collision

Aid to Safety

HAMILTON POW-R-SAFE SYSTEMS LIMITED

Hamilton Pow-R-Safe Systems Ltd, Park Road,
Holmewood Industrial Park, Chesterfield S42 5UW
e-mail sales@hamiltonpow-r-safe.co.uk

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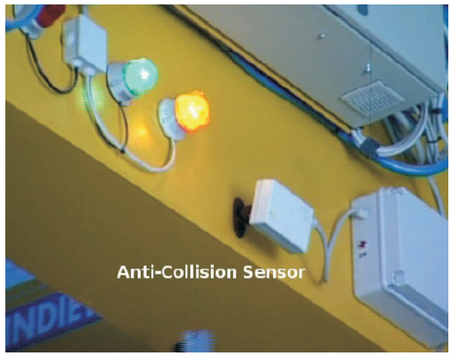
The EGOpro Safety Anti-collision System manufactured by Advanced Microwave Engineering uses the latest LNXessence technology which is a patented active RFID system to manage areas where different cranes overlap each other and there is a risk of collisions, so providing an innovative and efficient aid to health and safety in the workplace.
Unlike other types of equipment on the market the EGOpro Safety Anti-collision system can be adapted to prevent not only CRANE TO CRANE collisions but also to prevent CRANE TO VEHICLE collisions.
i.e. forklift trucks, shunting vehicles, container handling and delivery vehicles.
The function of the system is simple and straight forward and relies on only two main components a sensor (receiver) and a reflector (transmitter) with a pre programmed distance between them.

<u>Functions and components</u>

The system comprises basically of two components,
a PLX2700 sensor (receiver) and a PLX2700 reflector (tramsmitter)

As soon as the two components come within a pre programmed distance of each other a signal is sent to the crane system's PLC confirming this, which then applies an emergency stop function, thus preventing a dangerous collision which could result in serious personnel injury and costly equipment damage.


Anti-Collision Sensor

At the present time most other anti-collision systems work on either an optical or radar principal which in some environments and applications are not reliable, especially in dusty workplaces and where cranes are on different or multi levels.
The EGOpro Safety Anti-collision System is an advanced solution to most of these problems thanks to its core active LNXessence transponder technology.
EGOpro technology is a precise and reliable system which can operate in any environmental condition giving maximum protection to both people and machinery in the workplace.

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EGOpro safety anti-collision system : Advantages.

1. The precision settings and operation of the system are not effected by dusty conditions, weather conditions, vibration, or electromagnetic interferences.

2. The device is equipped with a self diagnosis system that continuously checks the functioning of all components and manages security relays. Any possible failure is immediately highlighted with a flashing alert.

3. The sensor has a directive antenna that covers a precise activation zone without the need for perfect alignment with the reflector. Furthermore the power is adjustable so that the required activation distance can be set from the reflector.

4. The EGOpro safety anti-collision system has an advanced threads management function that allows extra functions and equipment to be used.

5. The reflector (or group of reflectors) only replies to its own associated sensor, so is completely invisible to any other sensors that may be positioned in the same area.

6. The crane to crane solution is completely integrated with the crane to vehicle solution so allowing the EGOpro safety range to offer maximum health and safety solutions to the workplace.

The EGOpro safety anti-collision system brings many new advantages, fills the gaps and goes beyond the limits of optical and radar systems so is the most advanced technological choice for this type of equipment in today's demanding industrial markets.