

*the future is now - be there with us™*

Infra-Red & Radio  
Remote Control  
Crane Systems

**COMMANDER™**

Horizontal & Vertical  
Collision Avoidance  
Crane Systems



## Case Study



### IRCDS-HSD-II™ Vertical Mode Detection System

**Location** Australia, State of Victoria (& Worldwide).

**Industry** Building Civil Engineering & Construction

**Application** Tall building/structures construction, personnel access & working vertical drive platforms (two off) which operating on vertical travel guide masts with well proven rack & pinion drives to ensure stability. Operating heights vary considerably. Each access platform has the capability of individual raise and lower travel motion and have various mast configurations to suit the construction project requirements.

**Project** Traditionally, construction industry personnel access & working vertical drive platforms have operated as single vertical drive units but due to larger and wider building construction access, requirements have moved towards dual or multiple column systems with individual platforms being deployed to satisfy the requirement to access a wide building facia. As a result of these larger platforms they can overhang or under-hang one above another. This creates a safety issue whereby both platforms are at risk of collision with each other when travelling in opposing directions. Due to the operating heights involved on most projects, the safety aspects to prevent collision between the platforms needed to be taken out of the platform operators responsibility by automating the function thus to inhibit opposing vertical travel at pre-determined distances thus to facilitate a slow down of each speed to the ultimate stopping position, this subject to the actual structure dimensions and clearances.

**Solution** The ideal product to meet this safety demand is the **COMMANDER™ IRCDS-HSD-II™** applied in a vertical application mode. The **IRCDS-HSD-II™** with **DUPLEX-400™** Communication Transceivers provides the protection to meet the exacting safety requirements of the application.

#### Application Pictures



#### Product



Product Hardware shown (above right) is supplied in IP65 enclosures (Brochure available)

Specialist Designers & Manufacturers of Industrial **Infra-Red** & **PLL Synthesiser Radio** Remote Control; **Infra-Red, Ultrasonic & Microwave** Collision Avoidance Systems for Horizontal & Vertical (multi-level) applications; Simplex & Duplex Data Communicators; High Integrity Control Gear for High Integrity Material Handling Applications; Designers & Manufacturers of Eddy Current Brakes & Closed Loop Controllers; CE compliant: **U.K. Designed & Manufactured.**



T: +44 (0) 115-989-0100



F: +44 (0) 115-989-0200



W: [www.commander.co.uk](http://www.commander.co.uk)



© Copyright 2014  
**Commander Controls Limited**  
12 High Hazels Road  
Manvers Business Park, Cotgrave  
Nottinghamshire, NG12 3GZ. UK  
E: [sales@commander.co.uk](mailto:sales@commander.co.uk)