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Infra-Red & Radio  
Remote Control  
Crane Systems

**COMMANDER™**  
**COMMANDER**

Horizontal & Vertical  
Collision Avoidance  
Crane Systems

## Sales Specification for COMMANDER™ **ES**™ PLL Synthesiser Radio Hand Held Remote Controllers (Transmitters)



The **COMMANDER™ ES™** hand held push button controller (transmitter) style is an advanced version of the highly successful Series **S5™**. The **ES™** version now incorporates factory set address codes that eliminates the need for installers to set these during installation. If the **ES™** transmitter is supplied as part of a complete system, the receiver decoder will have already been taught with the factory set **ES™** transmitter address code. The **ES™** push button style is an innovative, high quality extruded and anodised aluminium enclosure with

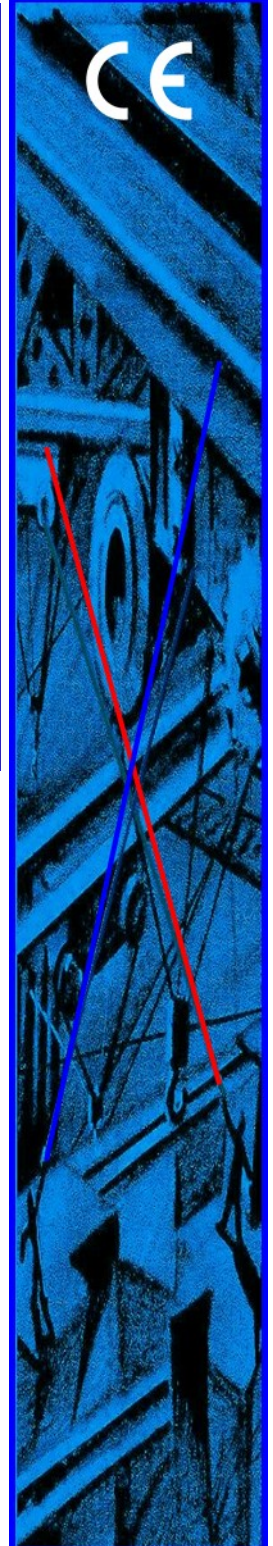


**COMMANDER ES™**  
**Radio Hand Held Remote Controllers (Transmitters)**

high impact polycarbonate nose and polypropylene end cap which houses the on/off security key switch and mushroom head CAT 3 EM stop button. The **ES™** push button transmitter design uses a highly advanced tactile feel passive switch system that provides single, 2 or 3 speed control. The **ES™** push button transmitter is available with 6, 8, 10, 12 or 14 button positions. The innovative design enables a wide variety of control selections to be achieved including rotary and key switches (see examples next page).

Dual processors manage and provide dual channel STOP operation to enable compliance with CAT3. The software management system monitors the status of all switches and controls by continuous **ComSoft™** software controlled scanning system. All switch devices are input direct to the micro controller this ensures very fast encoding and decoding routines to be achieved. Start up protection is incorporated as a standard feature. The Emergency Stop System complies fully to CAT3 requirements. The **ES™** push transmitter has a specific start up and checking sequence to ensure the dual channel system fully functions.

**COMMANDER™ ES™** push button transmitters are constructed with RED enclosures for Infra-Red versions or BLUE enclosures for Radio versions. **Radio** version transmitters for standard supply (433-434MHz SRD) do not normally require an operating license in any country. Radio controllers are supplied with continuous operation for MLC and safety integrity. **ES™** controllers (8, 10, 12 & 14 button) can receive up to 8 channels of signalling from the crane using a **TalkBak™** system to activate custom LED display.



Specialist Designers & Manufacturers of Industrial **Infra-Red** & **Radio** Remote Control; **Infra-Red**, **Ultrasonic** & **Microwave** Crane Detection Systems for Horizontal & Vertical (multi-level) applications; Simplex & Duplex Data Communicators; High Integrity Control Systems, Eddy Current Brakes & Closed Loop Controllers for High Integrity Heavy Lift Cranes & other Material Handling Applications: **U.K. Designed & Manufactured.**

**TP** **TechPoint™**

# Technical Details for COMMANDER™ E5™ PLL Synthesiser Radio Hand Held Remote Controllers (Transmitters)



## E5™ Push Button Radio PLL Synthesiser Hand Held Remote Controller

Safety	CAT 3 EM Stop & dual channel $\mu$ P's			
Construction	Extruded Aluminium			
Dimensions (Standard)	<b>Buttons</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>
	6	76mm	192mm	35mm
	8	76mm	224mm	35mm
	10	76mm	256mm	35mm
	12	76mm	288mm	35mm
	14	76mm	320mm	35mm
Finish	Anodised in Blue			
Weight	From 400 grams with (with battery)			
Battery Type	Rechargeable NiMH pack			
Environmental	-10°C to +55°C IP55			
Radio Type & Frequency	PLL Synthesiser, 29 installer settable channels, 434MHz			
Primary Controls	Push to operate tactile buttons (passive switching) (expandable design)			
Speed Steps	Single, two and three speed <b>PulseMatic™</b> speed option			
Auxiliary controls	Rotary & key switches			
Diagnostics	Battery warning & status LED's			
Security Codes	Factory set and paired when shipped as part of a system			
Operating Range	100/150+ Metres (approx.) Infra-Red <b>CloseStart™</b> available. Charge Life			



## E5™ Transmitter Example Custom Versions



E5™ controller with multiple bridge & multiple hoist selectors



E5™ controller with 8 channel TalkBak™ signalling from the crane bridge

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