

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

Infra-Red & Radio  
Remote Control  
Crane Systems

**COMMANDER™**  
**COMMANDER™**

Horizontal & Vertical  
Collision Avoidance  
Crane Systems

## Sales Specification for Crane Remote Control System **€5™** Push Button Infra-Red Transmitter with **RD-I7™ Teachme™** Receiver Decoder



**LEDLamp-II™**  
Crane Activity Indicators



**TruTandem™**  
Crane Communicators



**€5™**  
Push Button Options



**€5™/RD-I7™** Infra-Red Push Button System



The **COMMANDER™ Teachme™** dual channel (CAT 3) dual microprocessor controlled digital **Infra-Red** remote control system with **€5™** push button transmitter is a **FAST, POWERFUL & FLEXIBLE** product. Specially designed for the safe and cost effective operation of 3, 4 or 5 motion (or more) electric overhead cranes and other electrically powered equipment requiring 1, 2 (or 3 speed with **PulseMatic™**) from a ground based operator. The **Teachme™** remote control system uses a receiver decoder that is sized to suit the application and to minimise interface redundancy. One standard **RD-I7™** receiver decoder is expandable with additional relay interface PCB's, Analogue drivers for up to 4 motions and **TruTandem™** multiple crane control. The **RD-I7™** receiver decoder can be reprogrammed at any time (during the **Teachme™** access time window) with a replacement transmitter.

**COMMANDER™ €5™** push button transmitters have been designed for maximum flexibility for multiple configurations and features advanced design enclosure to enable 5 standard transmitter types to be supplied in a 6, 8, 10, 12 & 14 button format. This design enables further possibilities to incorporate extended length enclosures to feature rotary selector switches, supervisory key switch options and LED's for the **TalkBak™** signalling system available as standard feature options. The **SnuGlove™** transmitter environmental protection option protects in harsh chemicals are present in the operating environment. Command legends included to suit the country of destination.

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 E5™ Push Button Infra-Red Transmitter with RD-I7™ Teachme™ Receiver Decoder



## RD-I7™ Teachme™ Receiver Decoder

Safety	Cat 3. Two FG MCR's & dual channel $\mu$ P's (microprocessors)
Enclosure	Sheet steel with hinged door
Size	338W x 250H x 97D (mm)
Finish	Powder coated in Black
Cable ports provided	Qty 1 @ 25mm, Qty 3 @ 20mm
AC voltage version	42V-230V AC (3 formats) (DC to order)
Environment	-10°C to +55°C IP54
Volt free relays	17 - 33 N.O. volt free contacts (N.C. & Latch available)
Power & Interface	Plug & socket I/O terminal connectors
Signal input	BNC co-axial from Infra-Red sensor network
MLC monitoring	Voltage or optional current monitoring (subject to FD/FVD's).
Diagnostics	Alphanumeric and LED's
Security codes	<b>Teachme™</b> coding from the transmitter
Expandable with	Up to Qty 2, 8 relay PCB's/Analogue) <b>PulseMatic™</b> / <b>TruTandem™</b>

## IRRxE™ Infra-Red Receiving Sensors (with cable network)

Type	(extruded frame) 140° (under-crane mount) anodised Red
Operating range	80+ Metres (line of sight/subject to height)
Environmental	-10°C to +55°C IP55
Connection	Twin BNC co-axial ports

## E5™ Push Button Infra-Red Transmitter

Safety	CAT 3 EM Stop & dual channel $\mu$ P's (microprocessors)
Construction	Extruded Aluminium
Dimensions (Standard)	76W x H (192-320) x 34D (mm)
Finish	Anodised in Red
Weight	400 grams (with battery)
Battery Type	Rechargeable NiMH pack
Environmental	-10°C to +55°C IP55
IR Frequency	Fixed @ 940 nanometres
Primary Controls	Push to operate tactile buttons
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
Operating Range	80+ Metres line of sight (approx.)
Charge Life	18 hours @ 100% duty

## E5™ Transmitter Battery Chargers

Fast/trickle version	40 minutes approximately in fast mode/auto trickle
Trickle only version	Constant current trickle charge
Environmental	-10°C to +55°C IP54
Power	230V AC (115V AC option)



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