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Infra-Red & Radio
Remote Control
Crane Systems

COMMANDER™
COMMANDER

Horizontal & Vertical
Collision Avoidance
Crane Systems

Sales Specification for TalkBak™ Radio Signalling System (Infra-Red option available)



LEDLamp-II™
CraneActivity Indicators



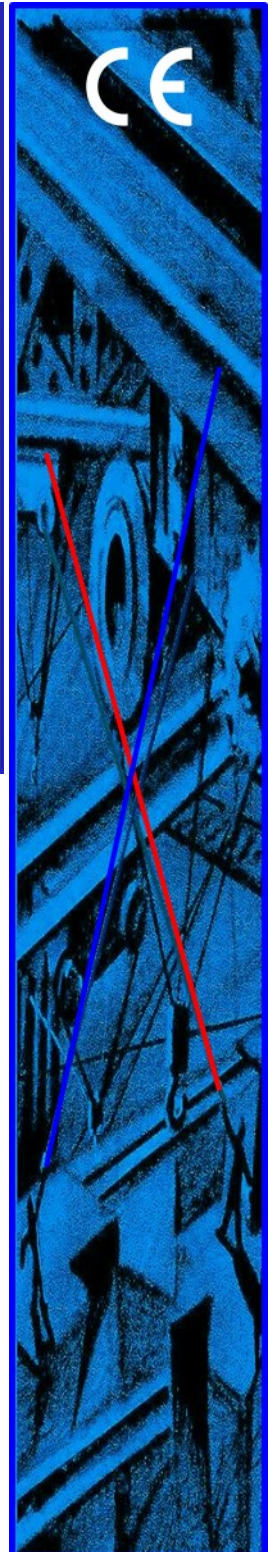
BatBak™
Battery Back Up System



E3™ Transmitter with
TalkBak Receiver within



TalkBak™ Signalling System (Transmit & Receive)



The **COMMANDER™ TalkBak™** system uses factory set security coded Radio signals to communicate between cranes or other objects mobile or static. The hardware can be supplied to operate in Simplex (1 way) mode or Duplex (2 way). The usual application for this product is for volt free integration to on crane control systems where either switch activity (limits, load cells etc) become active/inactive and the status is required to be known on the partner in the application to indicate an inhibit or active function. The system outputs a factory set security coded signals to the partner receiver (codes are taught between systems). Each system incorporates either 5 or 8 volt free channels to enable multiple choice configurations. Transmitter channels are connected to a volt free contact/device and when the contacts are closed on that device that particular channel status is transmitted in real time to the partner receiver decoder, on decoding a relays is then activated on the receiver decoder. The receiving decoder can be a small version in a transmitter for activating indicators On the 5 or 8 channel system one channel can be configured for a safety relay for integration to the crane protective system. The relays are closed when the system is mains powered and the relevant channels active, and will only open if the source contact opens or in the unlikely event of system failure or when power is lost on the crane (s). Alignment is important between the two structures to ensure reliability. We require to know the operating range details required. A **BatBak™** battery back up unit is also available to maintain signalling communications during periods of crane (applied to) downtime.

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.**



Technical Details

TalkBak™ Radio Signalling System (Infra-Red option available)



TalkBak™ Transmit Unit Specification

Safety	Contact monitoring relays open if supply failure
Enclosure	Sheet Steel with hinged door
Dimensions	260W x 206H x 94D (mm)
Finish	Powder coated in Black
Cable ports provided	Qty 1 @ 20mm (for interface cable gland)
AC Voltage Version	42V-230V AC (3 formats) (DC to order)
Environmental	-10°C to +55°C IP54
Volt Free Relays	5 or 8 N.O. volt free 'dry' input contacts
Power & Interface	Plug & socket I/O terminal connectors
Signal Input	Data cable with connector
Diagnostics	LED's
Security Codes	Factory set code

TalkBak™ Receive Unit with Volt Free Relays

Safety	Relays open if signal lost or supply failure
Enclosure	Sheet Steel with hinged door
Dimensions	260W x 206H x 94D (mm)
Finish	Powder coated in Black
Cable ports provided	Qty 1 @ 20mm (for interface cable gland)
AC Voltage Version	42V-230V AC (3 formats) (DC to order)
Environmental	-10°C to +55°C IP54
Volt Free Relays	5 or 8 N.O. volt free output contacts
Power & Interface	Plug & socket I/O terminal connectors
Diagnostics	LED's
Security Codes	Factory set code but can be re-taught with Teachme™ method

TalkBak™ Receive Module with LED's in-built to E3™ or E5™ Transmitters

Printed Circuit Board	Designed for Incorporation to portable transmitters
RF Frequency	433-434 MHz (Channel Settable)
Operating Range	100+ Metres (polarised antenna)
Connection	Inbuilt to the portable transmitter
Environmental	-10°C to +55°C IP55
Signal Outputs	By LED's (colours and installation to suit the application)
Diagnostics	LED's
Security Codes	Factory set code (to match the transmitter)

TalkBak™ Transmit & Receive Heads (Full Relay version only)

Construction	Extruded, Plate & Tubular Aluminium
Finish	Anodised Blue (Radio Version)
Operating Range	100+ Metres (polarised antenna)
Connection	Factory supplied data cables with fitted connectors
Environmental	-10°C to +55°C IP55
Dimensions (each)	100W x 140H x 158D (mm)
Weight (each)	0.600 kg

Data Cables (supplied for transmitter & receiver)

Transmitters	Data & Power cables ready assembled to fixed lengths
Receivers	Co-axial cables ready assembled to fixed lengths



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