

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



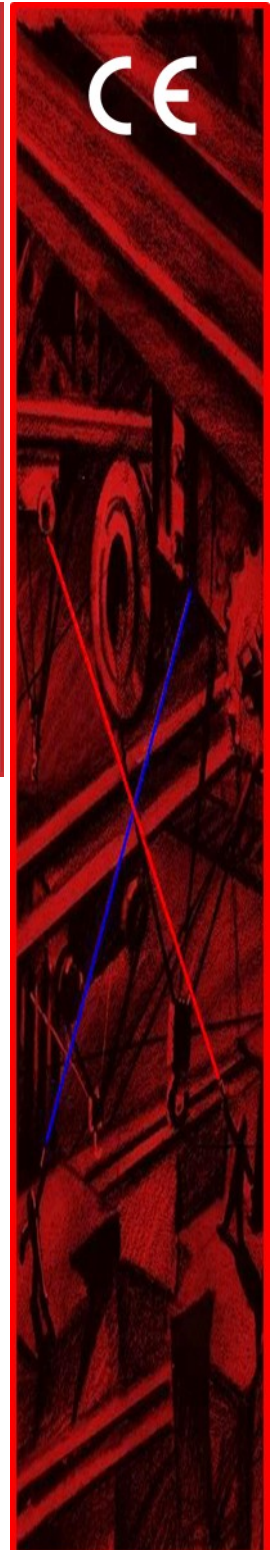
LEDLamp-II™
Crane Activity Indicators



BatBak™
Battery Back Up System



TalkBak™ Signalling System (Transmit & Receive)



The **COMMANDER™ TalkBak™** system uses factory set security coded Infra-Red signals to communicate horizontally between cranes or other objects mobile or static (end walls etc). 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 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. 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.

Technical Details

TalkBak™ Infra-Red Horizontal Signalling System (Radio 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 Specification

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™ Transmit & Receive Heads (IR Only) (1 of each)

Construction	Extruded, Plate & Tubular Aluminium
Finish	Anodised Red (infra-red version)
Operating Range	50+ Metres (horizontal & vertically aligned)
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



© Copyright 2015

Commander Controls Limited, 12 High Hazels Road, Cotgrave, Nottinghamshire, NG12 3GZ, U.K.
Tel: +44 (0) 115-989-0100; Fax: +44 (0) 115-989-0200; www.commander.co.uk; sales@commander.co.uk
Publication CCL/TalkBak™ Infra-Red Horizontal Signalling System (Issue 01-06-2015)

