Infra-Red & Radio Remote Control Crane Systems

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TM Horizontal & Vertical Collision Avoidance Crane Sustems

Sales Specification for Morsonic-II Horizontal Crane Detection System with BatBakTM (Battery Back Up System)



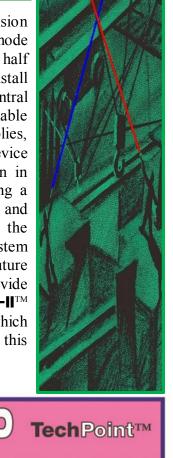








The COMMANDER™ Morsonic-II™ Horizontal Crane Detection System for collision avoidance is designed for stand alone individual operation in a Simplex mode (retro-reflective) or be set to communicate with other Morsonic-IITM systems in a half duplex (handshake) mode. The Morsonic-IITM system is supplied as an easy to install product comprising a purpose designed and constructed sheet steel **CIU**TM (Central Interface Unit) with fitted ports and houses a single high quality programmable microprocessor controlled printed circuit 'mother' board (PCB) with power supplies, MLC and 3 interface zone relays. A remote mount 'plug in' **TxRx∈**™ transceiver device enables communication with partner Morsonic-IITM system (s) or structure when in retro-reflective mode. This system version will operate in two directions by adding a plug-in 'daughter' PCB and a second TxRx€™ transceiver device thus to detect and control both forward and reverse directions and speed zones, importantly the **Morsonic-II**TM system is compatible with the previous **Morsonic**TM system. This system configuration is more cost effective and simplistic method of expansion and future changes to client user working practice. A **BatBak**TM (battery back up unit) will provide standby power (given period) for both directions of communication. The Morsonic-IITM system is programmed during installation using the CDSTM programmer unit which connects to the mother and daughter PCB. The input settings are stored in memory, this prevents any tampering by unauthorised persons after installation set up.





Technical Details for Morsonic-IITM Horizontal Crane Detection System with BatBakTM (Battery Back Up System)

Buy British

CIU™ (Central Interface Unit)

MLC Interface & Directional Zones Relays open if failure. Safety Enclosure Sheet steel with hinged door and slotted finger screw.

Powder coated in Verona (Green). Finish

231W x 254H x 92D (inc. mounting brackets) (mm). Dimensions

2.80 kg. Weight

Oty 2 @ 20mm (for interface cable gland). Cable ports provided

BatBakTM & Forward/Reverse TxRxETM transceivers. Cable connectors

AC Voltage Version 24V-230V AC (3 formats) (24V DC to order).

-10°C to +70°C IP55. For high humidity levels refer to supplier. Environmental Volt Free Relays (N.O.) Qty 1, for Safety relay (MC circuit) & Qty 3, for Zone Relays.

Power & Interface Plug & socket I/O terminal connectors.

Programming connector Mother PCB and Expansion PCB, settings retained in memory.

Diagnostics 7 Segment display & LED's. Security Code Code input from the programmer.

TxRx€[™] Transceiver Device Specification

All aluminium construction with fixing holes for mounting. Enclosure

Finish Anodised Green.

140W x 122H x 64D (mm). Dimensions

Weight 0.275 kg.

Operating Range 10-30M subject to configuration format (must have free airspace).

Environmental -10°C to +55°C IP55.

Fitted 6.0M Data cable with connector (extender cable available). Connection

Expansion PCB for CIUTM (Central Interface Unit) (Direction 2) (not shown).

Single Expansion PCB Includes all interface and operating features as the Mother PCB and **TxRx∈**TM required. Power is derived from the Mother PCB via a ribbon cable.

Weight 0.200 kg.

BatBakTM Battery Back Up System

Enclosure Folded & welded sheet steel for strength. Finish Powder coated in Verona (Green). Dimensions 205W x 125H x 80D (mm).

Weight 3.135 kg.

CDSTM Installer Programmer (Optional Installer Tool)

Extruded Aluminium. Enclosure Finish Anodised in Black. Dimensions 76W x 150H x 50D (mm).

Weight 0.685 kg.

Readout LED's & double 7 segment display.

-10°C to +55°C IP55. Environmental

Plug-in @ 5.0M (extender available). Connection Cable

6 position Rotary Switch with 2 function select/set push buttons. Program Selector

EI[™]/ **RD-O5**[™] Infra-Red Over-ride System - Option

The **EI**TM/ **RD-O5**TM Infra-Red 'conditional' travel over-ride system is designed for use by a second person (supervisory/banks-man) involved in a lifting operation to safely over-ride an automatic zone inhibit by a **COMMANDER**TM Crane Detection System (collision avoidance). The hand held transmitter features **AutoStart**TM and operates using a specific common code periodic defined sector transmission system. The \mathbf{e}^{TM} Infra-Red transmitter must be secured in a safe place when not in use and only accessible for use by authorised persons. This system is a safety tool designed to ensure a lifting operation is effectively controlled within a 'normally' inhibited area. See $\mathbf{EI}^{TM}/\mathbf{RD-OS}^{TM}$ brochure for full specification.





