Infra-Red & Radio Remote Control Crane Systems

COMMANDED

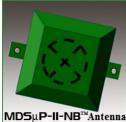
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Horizontal & Vertical
Collision Avoidance
Crane Systems

Sales Specification for MDS μ P-II-NBTM Horizontal Crane Detection System











The MDSμP-II-NBTM Horizontal Crane Detection System for collision avoidance incorporates the very latest COMMANDERTM development in low power microwave technology. The MDSμP-II-NBTM is designed for stand alone operation and can be used to detect stationary or moving targets. The MDSμP-II-NBTM is supplied as an easy to install product comprising a purpose designed and constructed sheet steel CIUTM (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' MDSμP-II-NBTM Antenna (transceiver) with ABS cover to IP65 enables detection of structural objects such as overhead cranes and building end walls. An optional MDS-TetrahedronTM reflector ensures a good return signal from small targets. This system will operate in two directions by adding a plug-in 'daughter' PCB and a second MDSμP-II-NBTM Antenna thus to detect and control forward and reverse directions and speed zones.

The MDS μ P-II-NBTM system incorporates 3 zone relays (each direction) as standard which can be programmed during installation for the required detection distances and interfaced to warning devices, directional and speed control circuits as required. The MDS μ P-II-NBTM system is programmed during installation using the CDSTM programmer unit which connects to the mother PCB. The input settings are stored in memory, this prevents any tampering by unauthorised persons after installation set up.



Technical Details for MDSuP-II-NBTM

Horizontal Crane Detection System



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

Powder coated in Verona (Green). Finish

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

Weight 2.80 kg.

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

Forward/Reverse MDSµP-II-NBTM Antenna transceivers. Cable connectors

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

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

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

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

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

MDSµP-II-NB™ Antenna Transceiver Device Specification

ABS construction with fixing bracket for mounting. Enclosure

Finish

Dimensions 150W x 150H x 100D (mm).

0.250 kg. Weight

Operating Range 60-100M subject to configuration format (must have free airspace).

Environmental -10°C to +55°C IP55.

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

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

Single Expansion PCB Includes all interface and operating features as the Mother PCB. Power is derived from the Mother PCB via a ribbon cable. and Antenna 2 required.

0.200 kg. Weight

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

Weight 0.685 kg.

Readout LED's & double 7 segment display.

Environmental -10°C to +55°C IP55.

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

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

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/banksman) 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 AutoStartTM and operates using a specific common code periodic defined sector transmission system. The **EI**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 **EI**TM/**RD-O5**TM brochure for full specification.









