

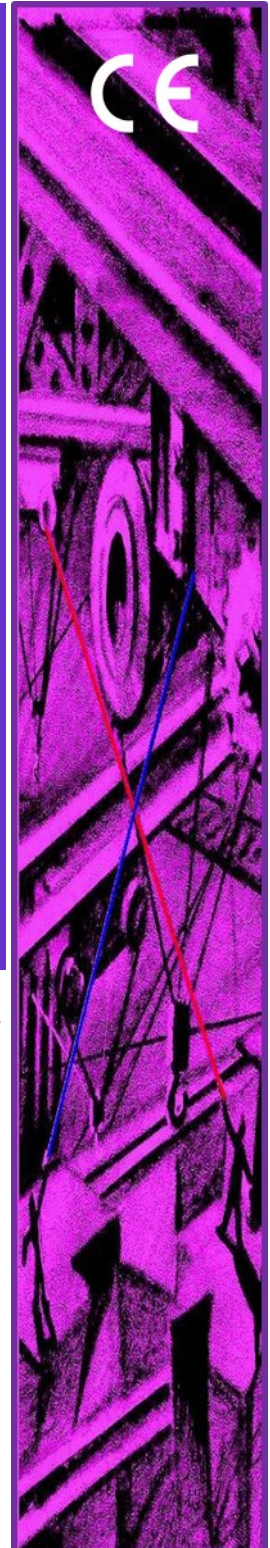
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High Integrity
Control Systems
for Cranes

COMMANDER™

Remote Control,
Crane Detection &
Safety Systems

Specification & Technical Details for BNFL Pattern Pendant Station



The **COMMANDER™ BNFL Pattern Pendant Station** has been designed to provide a common style layout which ensures familiarisation by operators if moving from crane to crane. This **COMMANDER™** design pendant station also reduces operator fatigue which can be encountered when using outdated mechanically hard 'Euclid style' 3 step push button mechanism used on older cranes.

The **COMMANDER™** design incorporates the use of a single joystick mechanism with up to 5 speed steps being available (North/South direction) for compatible (existing) control configurations and which are common to all crane motions with low voltage AC crane control systems.

Importantly the single joystick operation is designed to restrict operators from activating more than a single motion at any one time for safety reasons where volatile or very high value loads have to be controlled in a more specific and determined manner. This design can therefore be used in a variety of industries and applications. A security On/Off key switch (key trapped in the On position) is included.

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

Specification & Technical Details for BNFL Pattern Pendant Station



Functionality

Each motion is selected from a motion select push button (push to hold) and if applicable a rotary selector switch is incorporated to select the main or auxiliary load hook or other motion such as slew etc. This motion select button also acts as a dead man device, additionally a dead man device can be incorporated in the joy stick mechanism.

‘On Crane’ activity indicators (feedback) can also be included on the pendant station to provide the operator with status and fault information on the crane. Subject to the number of signals/channels of information, feedback information can be acquired from the crane circuitry and transmitted using **TalkBak™** radio frequency system from the crane to the suspended pendant enclosure, received signals are decoded and converted to drive LED indicators which are suitably identified on the pendant enclosure as with the hard wired option. This remote signally feature is particularly useful where mixed voltages require complete segregation or the number of channels would be inconvenient for festoon cables and pendant drop cable.

A digital load readout (LCD) can also be incorporated. ‘On crane’ load monitoring hardware is not included with this pendant station.

All pendants **MUST** comply with the low voltage directives.

Protection Rails with adjustable handgrips and a joy stick protection rail are included and these are strategically positioned for operator comfort when using the controls.

Pendant cable used must have in-built strainer wire for anchorage to provisioned fixings. Pendant cables are not supplied with the pendant station unless specifically specified, quoted and purchased.

The enclosure is manufactured from Die Cast High Grade Aluminium and enclosed to generally provide IP54 protection.

Enclosure access is provisioned from the rear of the enclosure

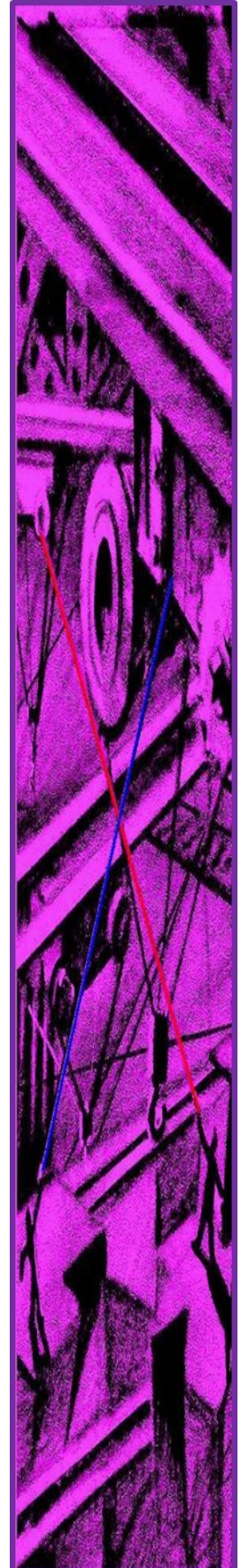
Standard ‘crane industry’ colour ‘Golden Yellow’ (to BS4800 - 08-E-51)

Each pendant station is manufactured to a specific order.

Other language text can be engraved on the ID plate.

This Device can also be supplied in a ‘wireless’ format using Infra-Red only, Radio only or a combination of Infra-Red & Radio. This mixed format would consist using Infra-Red for the crane control commands (ground to crane) and using Radio for the crane to ground signalling for crane activity status indicators as above mentioned. The Infra-Red commands would also be used to ensure the operator is not outside the ‘safe view’ and ‘in range’ area. The device would be battery powered with internal battery pack and battery charge management system.

We can engineer other formats to order, please contact us for further information.



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