DV4 Direct Control Chain Hoist Controller

The DV4 chain hoist controller, one of our range of control system 'building blocks', is designed to withstand the rigours of touring and staging life. The DV4 is housed in a steel rack mount case built with highly serviceable sub-assemblies, and offers the option of compact and ergonomic RC4 or RC8 remote control handsets

- **Four channels of direct hoist control using reversing contactors**
- **Industry standard C-Form outlet connectors**
- **Input voltage phase indicators and reversal switch**
- **Optional compact and ergonomic RC4 and RC8 handsets for remote control, with built-in Emergency Stop**
- **Optional remote GO button, link-able across multiple units**
- **Integral Emergency Stop button, link-able across multiple units. E-Stop circuit features automatic self-test function.**
- **Internal sub-assemblies designed for optimum serviceability**
- **Fully compliant with CE directives**

Designed and manufactured by:
Out Board Electronics, Unit 4 Church Meadows, Haslingfield Road, Barrington, Cambs, CB22 7RG, UK. Tel: +44 (0)1223 871015 fax: +44 (0)1223 871030 www.outboard.co.uk

DV4 Operation and Technical Details

The DV4 is designed to operate four direct control chain hoist motors in staging and rigging applications with internal contactors to provide direction control by switching phase rotation. It features heavy duty connectors and controls and is housed in a compact 3U high 19" rack mount case making it ideal for touring and fixed applications. The DV4 fully conforms to European EMC and LVD requirements.

An input MCB provides protection against output overload faults. The MCB is rated at 20A with D characteristic providing 10 - 20 times normal rating for start-up surges.

Phase direction and power on indicators show incoming mains status. The phase reversal switch (on rear panel) should be set so the green Phase neon is lit, to ensure that the motors run in the correct direction.

Local Up/Down switches allow the DV4 to be programmed from the front panel. Hoists are activated to this program by the front-panel GO button or Remote GO via GO Link In. An alternate program can be set on the optional RC4 handset and activated from the RC4 GO button only. Up/Down switches are protected by a crash bar and direction is indicated by green and red LEDs.

NB: Emergency Stop automatically self-tests by tripping the Main Breaker on connection to supply. Reset Main Breaker to restore full operation.

Front

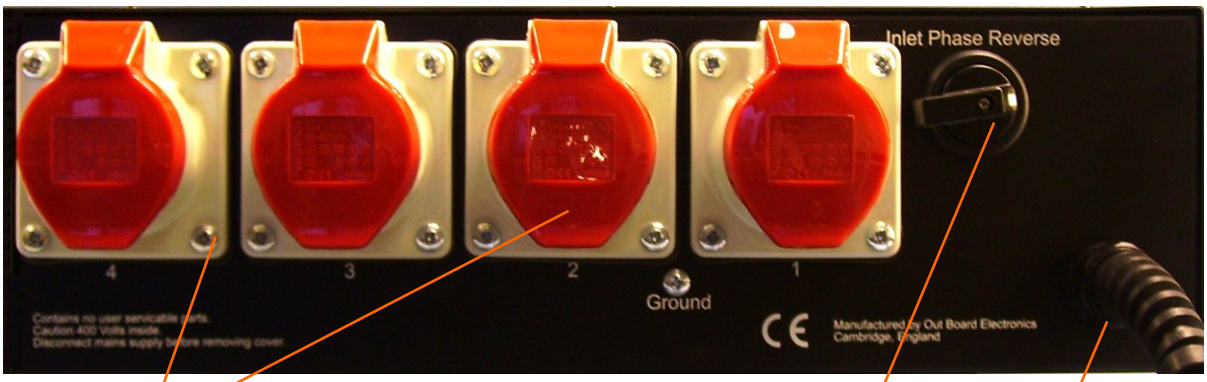
Front

Remote operation of the DV4 is available using the optional RC4 remote control handset, which provides Up/Down switches for motor direction, GO and E-Stop. The RC4 handset is connected to the DV4 via a detachable multicore cable. Two DV4's can be run from one RC8 eight-channel handset via an RC8 Handset Splitter. Programmable control systems such as the IBEX PHC+ can also connect to this Remote Control socket to automate the DV4.

After selecting Up/Down on the DV4 front-panel, hoists are activated using the front panel GO switch or by using the GO Link facility. The GO Link feature allows the DV4 to be controlled from an optional Out Board roving handheld Remote GO button, and also allows any number of DV4's to be controlled from a common GO command. To initiate a remote GO, pins 2 & 3 are shorted together on the 'GO Link In'. This causes an internal relay to link pins 2 & 3 on the 'GO Link Out' for daisy chaining to the next unit. To connect multiple DV units together, standard 3 pin XLR cables are used to link the 'GO Link Out' of the first DV4 to the 'GO Link In' of the next. The first unit's front-panel GO or Remote GO switch (connected to the GO Link In) will now control the others.

Front panel Emergency Stop trips the Main Breaker when activated. Works in conjunction with a remote E-Stop button on the RC4 handset, and also optional Out Board remote push-to-break E-stop button connected across pins 2 & 3 of the E-Stop Link In XLR. Multiple DV units can be linked via E-Stop Link Out & In. Recessed switches can disable either remote E-Stop feature independantly if either an RC4 handset or remote E-Stop are not plugged in. An LED indicates green when the Emergency Stop feature is disabled. **Emergency Stop function automatically self-tests by tripping the breaker on connection to supply** - See NB above

Rear



Rear

Connection to each motor consists of 3 phase power and earth on a 16A 4 pole red ceetype socket.

The phase reversal switch should be set so the front-panel green Phase neon is lit to ensure that the motors run in the correct direction and that the correct Limit Switch function is maintained.

Mains power inlet on 1.5m flying lead terminated with a 5 pole 32A ceetype cable plug carrying 3 phase L, N + E.

Dimensions: H: 3U (13.34cm) x W: 19" (48.26cm) x D: 31cm. Allow 10cm for rear chassis connectors and inlet cable bend radius. Shipping Weight: 13kg

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