DV8 Direct Control Chain Hoist Controller

The DV8 chain hoist controller, one of our range of control system 'building blocks', is designed to withstand the rigours of touring and staging life. The DV8 is housed in a steel rack mount case built with highly serviceable sub-assemblies, and offers the option of compact and ergonomic RC8 or RC16 Remote control handsets

- **Eight channels of direct hoist control using reversing contactors**
- **Industry standard Ceep (Socapex-style) control/power connectors. Optional trussmount C-Form Splitter Boxes**
- **Input voltage phase indicators and reversal switch**
- **Optional compact and ergonomic RC8 and RC16 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**

out board

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

DV8 Operation and Technical Details

The DV8 is designed to operate eight 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 DV8 fully conforms to European EMC and LVD requirements.

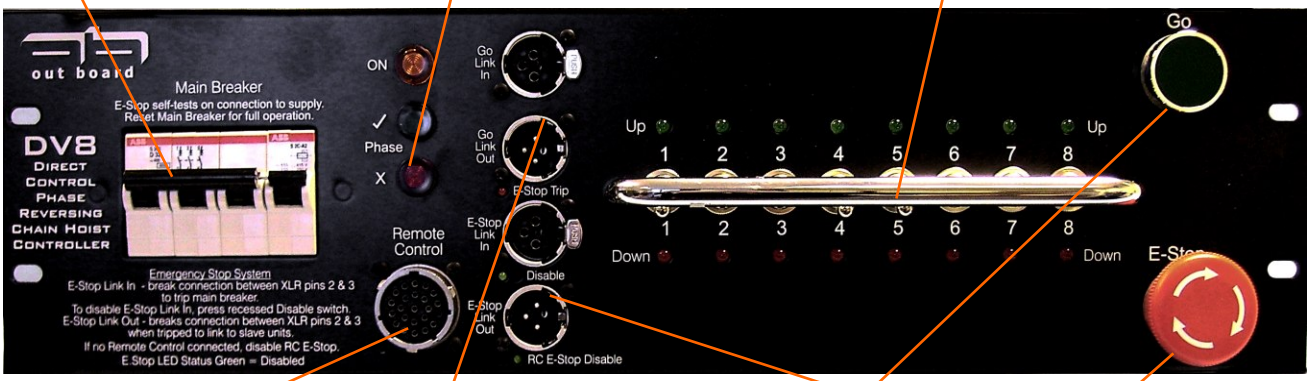
An input MCB provides protection against output overload faults. The MCB is rated at 32A with D characteristic providing 10 - 20 times normal rating for start-up surges.

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 DV8 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 RC8 handset and activated from the RC8 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 DV8 is available using the optional RC8 remote control handset, which provides Up/Down switches for motor direction, GO and E-Stop. The RC8 handset is connected to the DV8 via a detachable multicore cable. Two DV8's can be run from one RC16 sixteen-channel handset via an RC Handset Splitter. Programmable control systems such as the IBEX PHC+ can also connect to this Remote Control socket to automate the DV8.

After selecting Up/Down on the DV8 front-panel, hoists are activated using the front panel GO switch or by using the GO Link facility. The GO Link feature allows the DV8 to be controlled from an optional Out Board roving handheld Remote GO button, and also allows any number of DV8'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 DV8 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 RC8 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 RC8 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

Connections to hoists are arranged on two female 19-way Socapex connectors, in groups of four channels of Up/Down switched 3-phase power and earth on each.

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 C-Form line 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: 15kg

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