LV4 Low Voltage Control Chain Hoist Controller

The LV4 is one of our wide range of compact and solid chain hoist controllers, ideally suited to both touring and installation. The LV4 is built in a fully serviceable rugged steel 3U rackmount chassis. Remote control options include ergonomic RC4 handsets or Remote Go and E-Stop switches.

- **Four channels of low-voltage control and 3-phase hoist power distro**
- **Selectable Normal multichannel mode or Pickle mode**
- **Industry standard rear panel CeeForm outlet connectors**
- **Input voltage phase indicators and reversal switch**
- **Optional compact and ergonomic RC4 handset for remote control, with built-in Emergency Stop**
- **Optional Remote GO and E-Stop, linkable to multiple units**
- **Integral Emergency Stop button, linkable across multiple units. E-Stop circuit features power-up self-test function.**
- **Internal sub-assemblies designed for optimum serviceability**
- **Fully compliant with CE directives**

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

LV4 Operation and Technical Details

The LV4 operates four low-voltage controlled chain-hoist motors in staging and rigging applications. It features heavy duty connectors and controls housed in a compact 4U 19" rack-mount steel chassis making it ideal for both touring and installations. The LV4 fully conforms to European EMC and LVD requirements.

An input MCB provides protection against output overload faults. The MCB is rated at 16A 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 should be set so this green Phase neon is lit, to ensure that the motors run in the correct direction and that the hoist's limit switch function is maintained.

Local Up/Down switches allow the hoists to be selected on the LV4 front panel. Hoists are activated to this assignment by the front-panel GO button or Remote GO via GO Link In. Selection can also be made on the optional RC4 remote handsets and activated from its GO button. Up/Down switches are protected by a crash bar and direction is indicated by green and red LEDs.

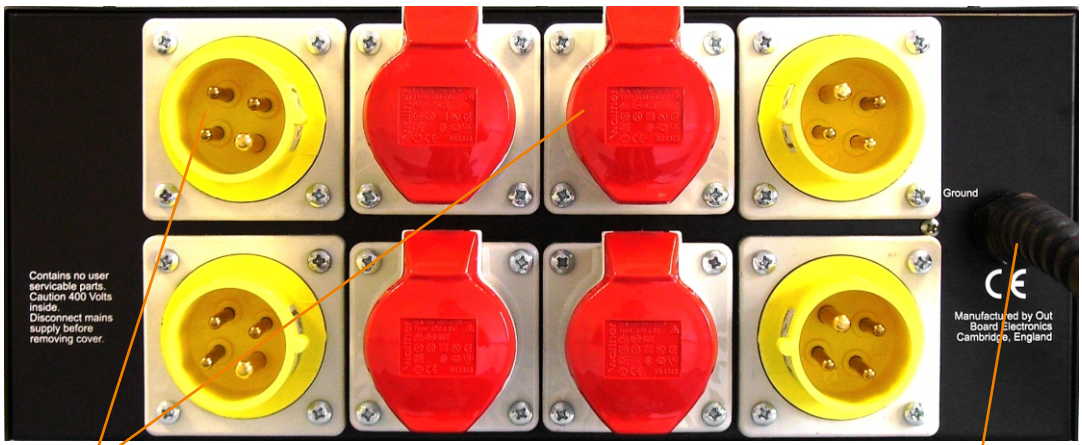
With the Mode switch in Pickle position all motors are energized enabling operation from a pickle. In Normal position the LV4 will only power the motors when channel Up/Down switches are assigned and GO is activated.

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

Remote operation of the LV4 is available using the optional RC4 remote control handset, which provides Up/Down switches, GO and E-Stop. The RC4 handset connects to the LV4 via a detachable multicore cable. Programmable control systems such as the IBEX PHC+ can also connect to this Remote Control socket to automate the LV4.
(NB **RCX** interface for **RCX SMART Remote** is **not** available for the LV4 Controller)

After selecting Up/Down on the LV4 front-panel, hoists are activated using the front panel GO switch or by using the GO Link facility. The GO Link feature allows the LV4 to be controlled from an optional handheld Remote GO button, and also allows any number of LV4'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 LV units together, standard 3 pin XLR cables connect the 'GO Link Out' of the first LV4 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. Also activated by the E-Stop button on the RC4 handset, and also optional remote push-to-break Remote E-Stop button connected across pins 2 & 3 of the E-Stop Link In XLR. Multiple LV units can be linked via E-Stop Link Out & In. **Remote E-Stop and RC4 E-Stop Disable recessed switches must be activated when Remote E-Stop or RC4 are not connected. Shows green LED when Disabled.** E-Stop function self-tests by tripping breaker on connection to supply.



ONLY TO BE OPERATED BY A QUALIFIED RIGGING PROFESSIONAL. ONLY USE WITH PERSONS IN THE HAZARD ZONE IF RISK ASSESSMENT HAS BEEN CARRIED OUT BY A QUALIFIED RIGGING ENGINEER.

Connections to hoists are arranged on individual Yellow male 4-pin CeeTypes for Up/Down control and Red female 4-pin CeeForms with switched 3-phase power/earth on each.

Mains power inlet on 1.5m flying lead terminated with a 5 pole 32A CeeForm cable plug carrying 3 phase L1/2/3, N + E.

Dimensions: H: 4U (17.78cm) x W: 19" (48.26cm) x D: 31cm. Allow 10cm for rear chassis connectors and inlet cable bend radius. Shipping Weight: 10kg

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