

# Serial Encoder Board

## Type CH032

**Publication Number PB153/1104**

### Application

The Serial Encoder Board CH032 is designed to be used in conjunction with serial controlled display units. The protocol used in the communication link between the display card and the encoder units are proprietary and subject to change without prior warning or notice.

The encoder has two serial output communication ports SER1 and SER2 and is installed in the lift machine room, next to the lift controller. It accepts signals like floor position code, directional arrows, gongs, as well as lift status signals like MAINTENANCE, OVERLOAD OUT OF ORDER etc. through 32 opto-isolated inputs. The signals are then transmitted through SER1 or SER2 which are 2-wire RS485 links to all the display units connected to it.

The data sent by the transmitter is categorised under the following groups:

Floor position/direction arrow and gong: this is real time data indicating the position and direction of travel of the lift.

Fixed messages: are permanently programmed into the onboard firmware located in the EPROM and will be displayed when corresponding trigger signal is activated to the CH032. Examples of the messages are lift status signals like "MAINTENANCE", "OVERLOAD", "FIRE, DO NOT USE LIFT", "RESERVED FOR VIP", "OUT OF ORDER", etc.

### Specification

Power supply requirement for the encoder card is an absolute maximum of 10V d.c. to 30V d.c. or 10V a.c. to 27V a.c. @ 0.13A.

16 opto-coupled trigger inputs with two common returns. Signals can be an absolute maximum of 10V to 28V a.c./d.c. @ 20mA each.

Floor position code. Programmable to accept any form of floor position code. Example, binary code, gray code seven segments code, one per floor etc.

Fixed messages are permanently stored in the EPROM.

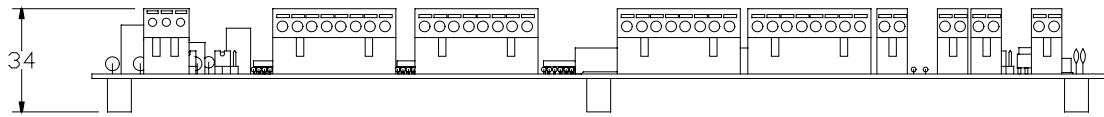
### Encoder Capabilities

Subject to the capability of the associated Series Controlled Position Indicator Units, the table below details the maximum number of arrows, gongs, floor and fixed text message features that can be programmed and triggered into the encoder and transmitted to the displays.

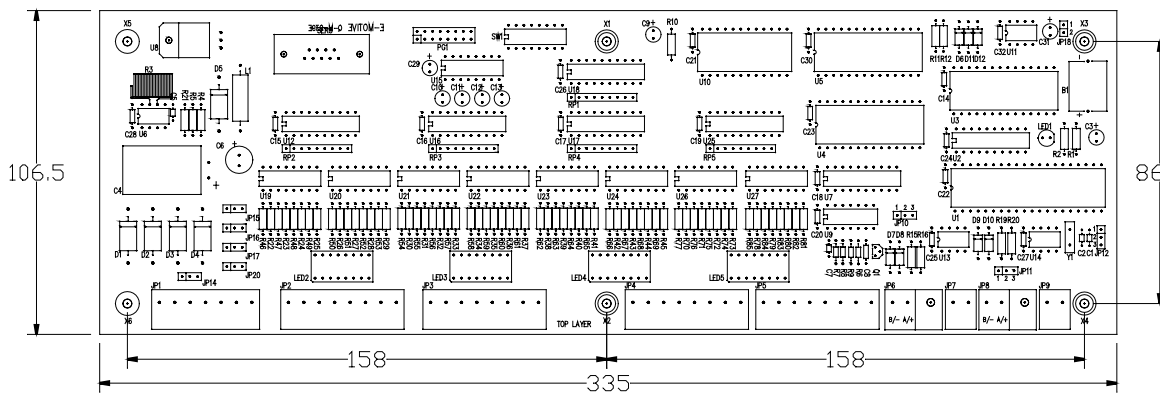
FEATURES AVAILABLE		TERMINAL ALLOCATION (32 AVAILABLE)
UP & DN Arrows		2
Scrolling Arrows		1
Flashing Arrows		1
Gong		2
Floors: Encoded	1-3	2
	1-7	3
	1-15	4
	1-31	5
One per floor	1-32	1 each
Message Triggers		1 each

**Dewhurst plc**    t +44 (0)20 8607 7300    f +44 (0)20 8572 5986    info@dewhurst.co.uk    www.dewhurst.co.uk  
Contact your local sales office:

<b>Australia</b>	<b>D</b> Australian lift components	t 02 9603 0200	f 02 9603 2700	info@alc.au.com	www.alc.au.com
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FRONT VIEW



TOP VIEW

CH032 ENCODER