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# **TECHNICAL MANUAL FOR THE HAND OPERATION POSITIONAL INDICATOR**

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WE RESERVE THE RIGHT TO ALTER WITHOUT GIVING PRIOR NOTICE TECHNICAL DATA, DIMENSIONS AND WEIGHTS DESCRIBED IN THIS MANUAL.

## **TABLE OF CONTENTS**

<i>Description</i>	<i>Page</i>
1) Introduction	2
2) Set-Up procedure	3
3) Connections	4
4) Connection diagrams	5
5) Internal view	6
6) Technical data	7
7) List of available floor text.	8
8) Dimensions	9

## **Introduction**

The I.L.E. hand operation positional indicator constantly monitors and displays the lift floor position. The unit displays the floor designation via an LCD display, indicating whether or not the lift is at floor level, just below floor level, just above floor level or in between two designated floors. It achieves this via connection to floor level proximity switches or tape head channels, which remain active whilst the power is removed.

The unit is battery backed so that when power is removed from the lift, the position is still displayed. This will assist engineers on site manually moving the lift (with the power off) by knowing where the lift is in the shaft. Also when the lift is at floor level a buzzer sounds, and a light illuminates to inform the person moving the lift.

The unit is fully site programmable, therefore reducing the need for specific floor designation settings at the ordering stage. Programming is achieved via two buttons to select and store the desired floor designations at the time of setup. During setup, the LCD display will be illuminated to provide better readability if the surrounding light is dim. The LCD display will also be illuminated when the unit is operating from the battery. Once set, the floor designations will be stored on board in non volatile ram, i.e. will remain set if the power is removed.

In addition to powering the hand wind unit and associated tape head, the 12V outputs can provide a supply for other uses (alarm bell etc.) subject to the limits stated in the technical data.

## Set-Up procedure

The text which identifies each floor is set using the two buttons on the front panel.

The procedure to set the required text is as follows:

The text for each floor should be set from the bottom up.


1. Hold both buttons until the message “ENTERING SETUP MODE” appears on the display.


2. Release both buttons, a message similar to figure 1 will be displayed.



```
SET POSITION 01
GROUND
```

figure 1.

3. Pressing  will move through each floor, displaying set text.


4. To alter the text for the floor being displayed press . Brackets will appear to indicate that the text can be changed, as shown in figure 2



```
SET POSITION 01
[GROUND]
```

figure 2.

5. Pressing  will move through the floor position library.

6. Accept the new text by pressing .

7. When all positions have been set as required, hold both buttons until the message “EXITING SETUP MODE” appears on the display.

*Note:-* When a floor designation has been set for a relevant position, the next designation is automatically selected for the next position, i.e. when position 1 is set to GROUND, position 2 will automatically step to 1ST to save time during setup.

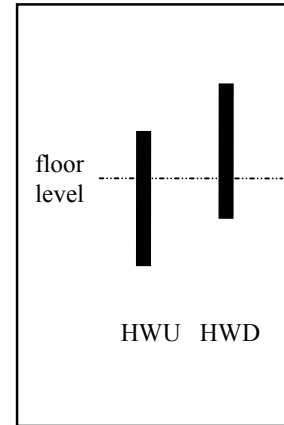
In the case of a non standard floor designation, the text is simply inserted into the standard list (see list of available floor text).

## Connections

**HWU** This connection should be a contact which is made at floor level and just below.

**HWD** This connection should be a contact which is made at floor level and just above.

**Note:** If using an I.L.E tape head these contacts use the existing FLU/FLD magnets, as shown in the diagram overleaf.



**RS+** These connections allows use of an existing bottom reset limit,  
**RS-** alternatively a volt free contact may be used as a reset limit.

To reuse an existing bottom reset limit **RS-** should be connected to the contact, which should be made at position 1. **RS+** should be connected to a respective supply of between 10V & 30V as shown overleaf.

To use a volt free contact as a bottom reset limit the contact should be connected to **RS-** and **HWR**. **RS+** should also be connected to **HWS** as shown overleaf.

**HWS** A 12v DC supply used for I/O  
**HWR**

**AB+** A maintained 12v DC supply  
**AB-**

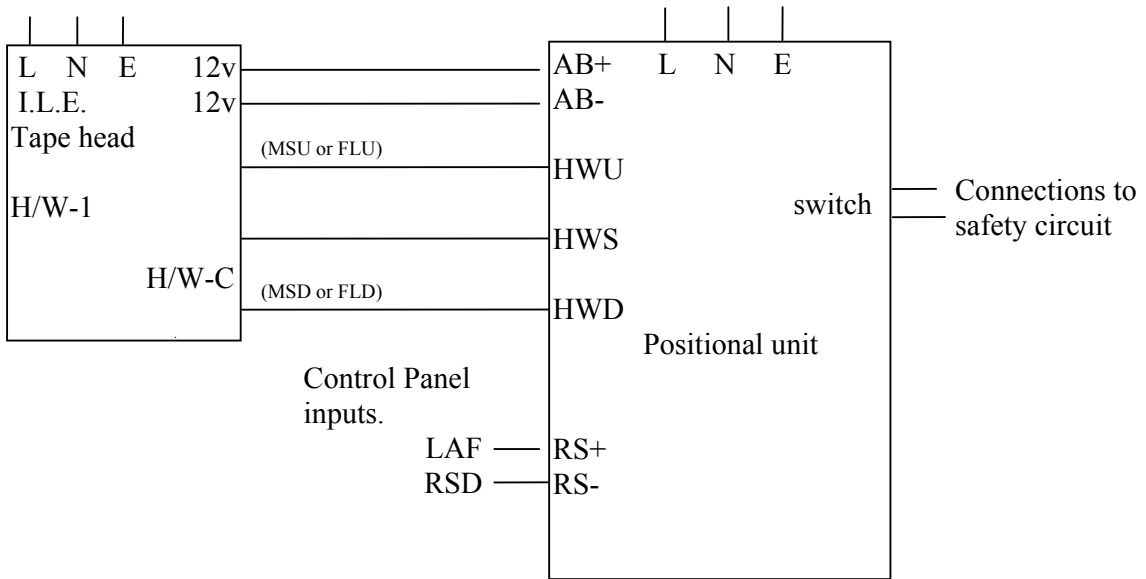
**EL+** A non-maintained 12v DC supply  
**EL-**

**L,N,E** 240V/110V supply. Voltage is link selectable. This supply should be a permanent supply to maintain battery condition. The supply should be wired via the internal switch.

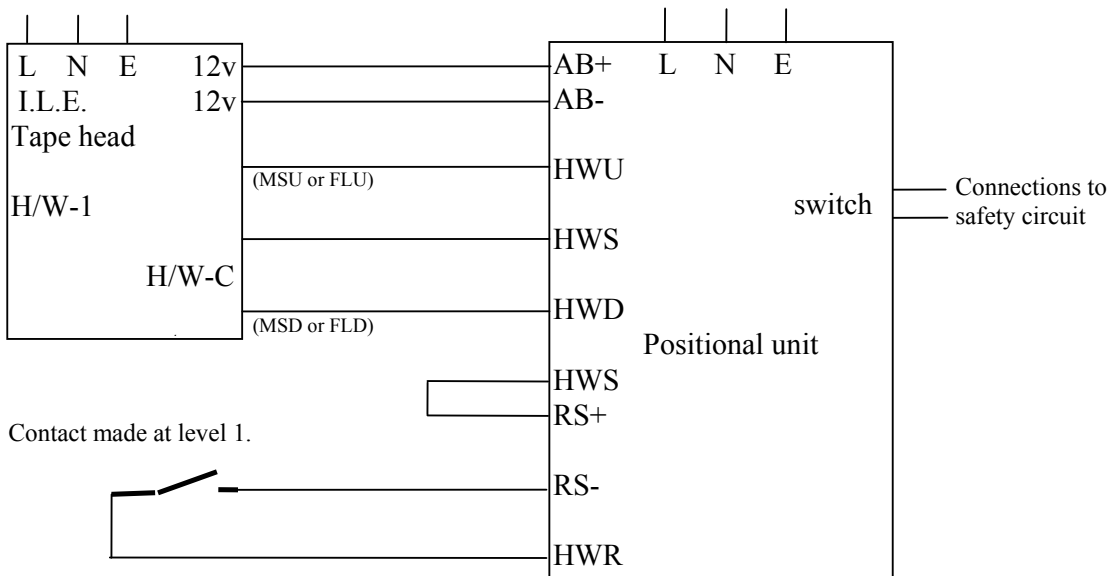
To ensure emc compliance the earth connection should be to a central earth point, and high and low voltages should be segregated.

## Connections to an I.L.E. tape head

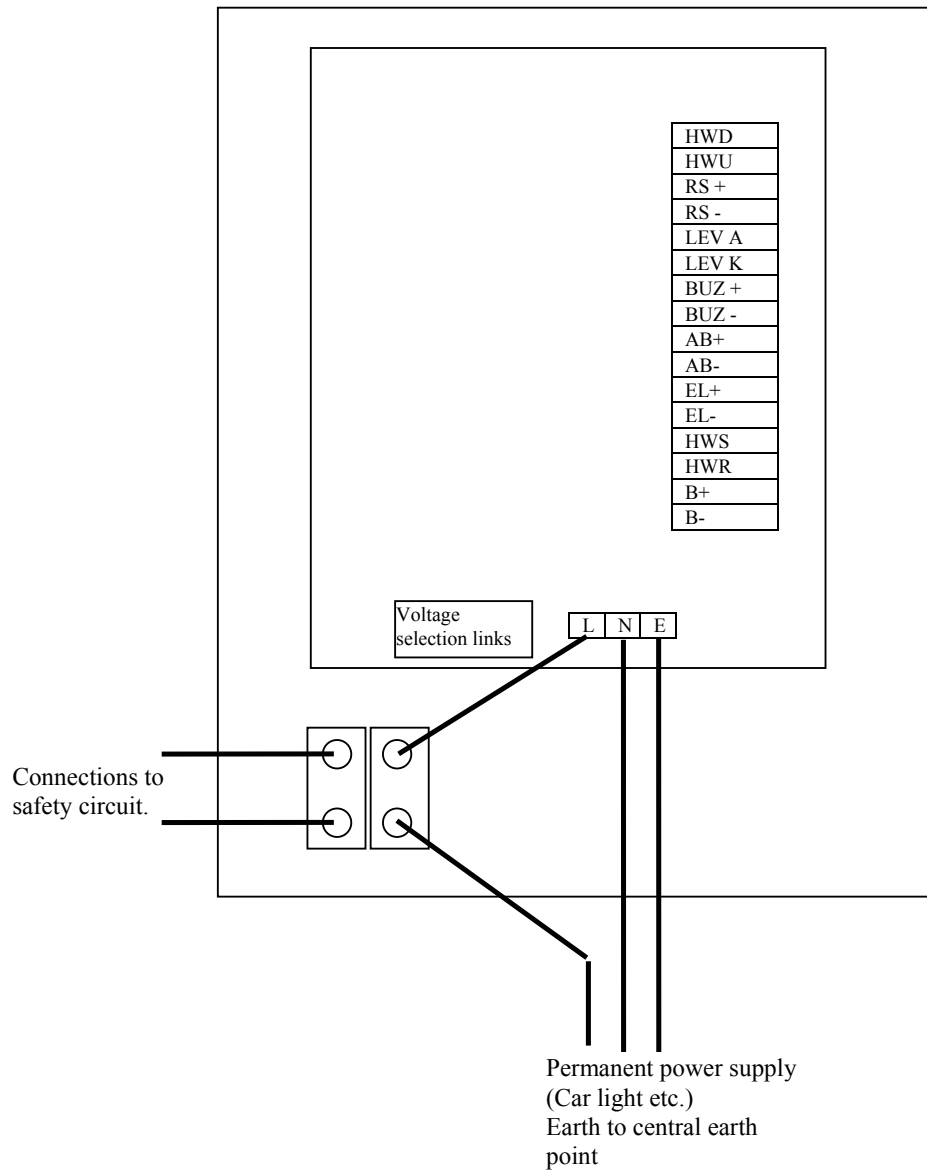
Reset limit used in conjunction with the ILE Interflite lift controller.



Reset limit as a volt-free contact. (Tape head or relay).



### Internal view showing terminals.



## Technical data

### Power supply

240v AC / 220v AC / 110v AC (link selectable) @ 150mA max.

### Battery Charging Time

5 hours @ 500mA max.

### Inputs

HWU,HWD	12V DC	(From HWS)
RS+	10-30V AC / DC	(From HWS or panel)

### Outputs

Total output not to exceed 200mA to ensure 3 hour operation with a 1.2Ah battery.

I.L.E. tape head will consume 90mA maximum in hand wind mode.

### **NOTE:**

The unit will interrupt the AB+ / AB- 12VDC output if the battery voltage drain exceeds less than 8.00 volts, this state is indicated by the "LOW BATTERY" led on board, and is reset once the battery charging voltage has been restored.

AB+ / AB-	12V DC maintained
EL + / EL-	12V DC non-maintained
HWS / HWR	12V DC

### Fuses

FS1,3,4	1A
FS2	3.15A



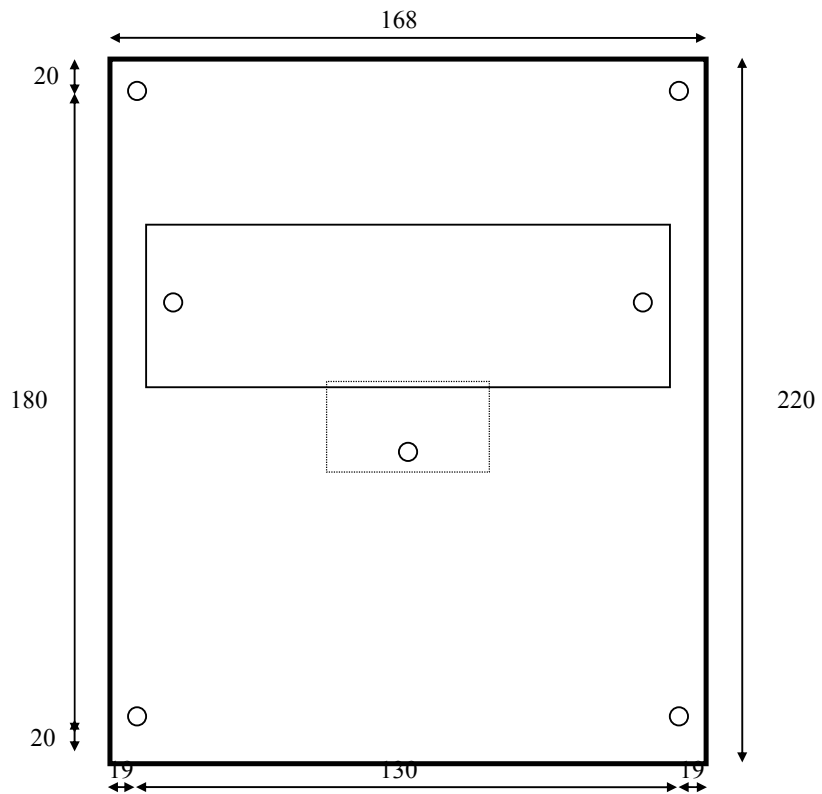
## List of available floor text (Issue 2)

Below are the standard floor designations which are in their relevant order.

SUB BSM	20th	D
BASEMNT	21st	E
LWR GRD	22nd	F
GROUND	23rd	G
1st	24th	H
2nd	25th	I
3rd	26th	J
4th	27th	K
5th	28th	L
6th	29th	M
7th	30th	N
8th	LWR BSM	O
9th	UPR GRD	P
10th	LWR 1ST	Q
11th	UPR 1ST	R
12th	MEZZ	S
13th	CP	T
14th	CP1	U
15th	CP2	V
16th	CP3	W
17th	A	X
18th	B	Y
19th	C	Z

## Dimensions

### Box Fixings



Lid Layout

