



Lift & Escalator Industry Association

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To: All Members
cc: The Quality and Technical Committee (Code No. 639)
The Maintenance Committee

Dear Member,

SAFETY BULLETIN FROM WINDCREST (UK) LTD

Please find enclosed Safety Bulletin from Windcrest (UK) Limited regarding a modification to the interconnection between the Windcrest 'Liftalert' system and the lift controller.

We trust that you will find this Safety Bulletin to be self-explanatory and be guided accordingly.

Yours faithfully

Robert N Lee
Director, Technical Services



EMTA Awards Limited
Approved Assessment Centre

Registered in England N° 3851206.



Registered office as above.



Certificate N° 12368

Safety Note: LiftAlert Interconnection to the Lift Controller

Introduction

The Windcrest LiftAlert system combines Lift Monitoring and a voice link in a simple and versatile manner.

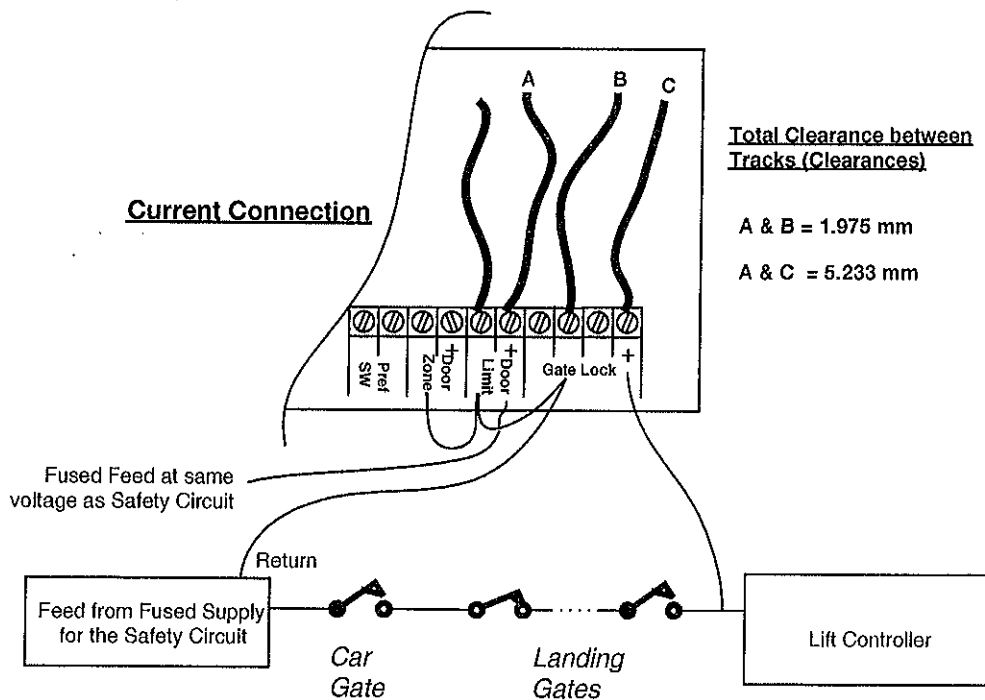
The interconnection between the LiftAlert and the lift controller is via an Interface Board. This Interface board consists of Resistors, to limit the current, and a number of op-to isolators. The standard instructions call for the installer to connect the required signals to the appropriate terminals on the Interface Board.

In anticipation to the forthcoming implementation of amendment 1 of EN81 parts 1 & 2 it has been felt necessary to highlight the importance of connecting to a lift controller in a careful and consistent manner. In particular, the importance of interconnecting the Gate lock signal, which if inappropriately connected, could potentially violate the integrity of the safety circuit.

Interconnection

The Interface Board requires the usual signals for monitoring the lift's operation. A selection of appropriately rated resistors, for various voltages, are supplied with the equipment for the Engineer to install on the Interface Board.

If the safety line is connected to the last terminal on the interface board, indicated by a "+", there should be no problems as a return track encompasses the relevant track.

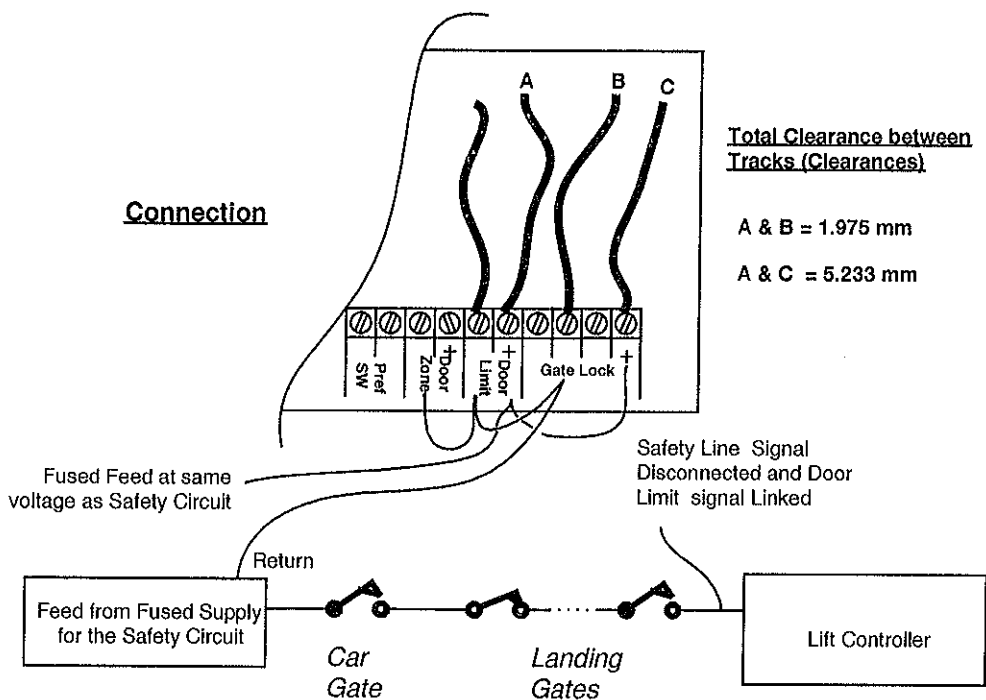


However, an incorrect installation could result if the safety line and the return connections were to be swapped around. In this case there is not enough clearance (1.975 mm) and the safety lines integrity is violated, i.e. where a signal, at the same voltage, from another source could bridge to the safety line.

It is not felt adequate, that just instructing the Installation Engineers to be consist and to ensure that the safety line signal is connected to the last terminal. Even if the connection is "in error", to ensure the safety lines integrity, the following solutions are recommended.

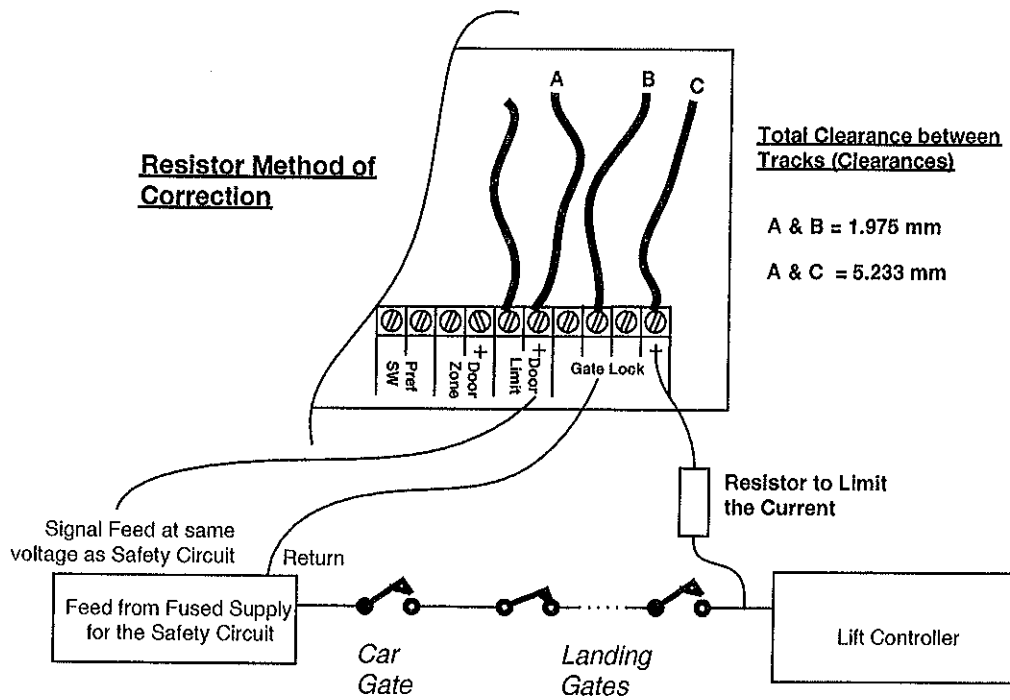
Immediate/Temporary action

Solution 1. Disconnect the Safety line signal and link the Gate Lock signal.



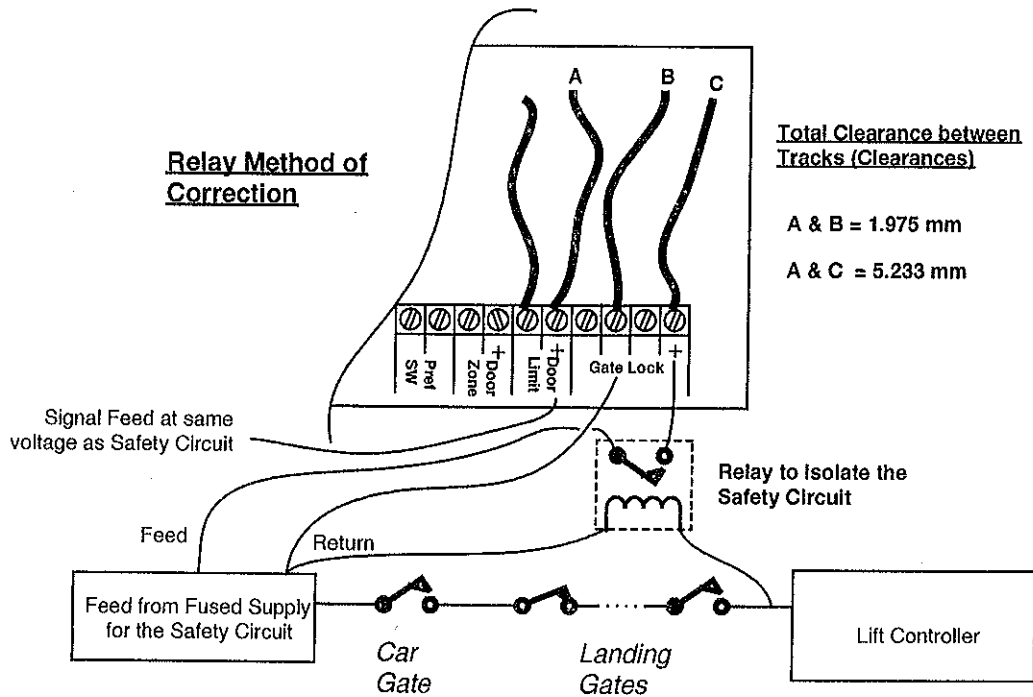
Solution 2. Place a Resistor in the Safety line signal.

By placing a resistor in line with the safety line signal, the current will be limited, even if a track bridging takes place on the Interface Circuit. However, the current resistors, soldered on the board, will need to be replaced.



Solution 3. Place a Relay to provide an isolated Safety line signal.

This method will provide good isolation and can be implemented without the change of resistors on the Interface board.



Conclusion

The installation of the LiftAlert's Interface board can be installed to meet a standard where the safety line's integrity is kept. However, to ensure the safety line is not compromised in any way, even if the wiring is inconsistent, solution 2 or 3 should be implemented.

LiftBits will make appropriate Resistors and Relays available.