

CG APPLICATIONS

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Application Note: May 21st 2007

Market involved : Lifts & Escalators

Product : DUB03

Customer : ---

Subject : Monitoring batteries voltage level on lift power supply backup systems

CUSTOMER ISSUE :

In lift market it is often used a battery backup power supply system.

It has to ensure the cabin motion, in case of mains interruption, to arrive to the nearest floor.

In fact this backup system is set up with a group of batteries, connected in series directly to the DC bus of the inverter, to provide a slow cabin motion to the nearest floor and the doors opening.

The voltage value of this auxiliary backup system must be monitored to ensure the right batteries voltage level.

OUR SOLUTION:

DUB03 is an AC/DC over or under voltage monitoring relay useful to check the batteries voltage level of electrical lifts.

The relay goes in alarm status every time the measured voltage value drops below the set level for more than the set delay time; this option is useful because the alarm situation may occur only for a few seconds, due, for example, to a brief overcurrent peak.

In this way it's possible to be advised of the wrong batteries voltage level and restore the backup system.

ACHIEVED BENEFITS:

- Ensure backup power supply system is ok.
- Avoid undesired stops in case of mains interruption.
- Selectable under voltage value.

