

CG APPLICATIONS

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Application Note : 19 January 2006

Market involved : Building Automation

Product : DIA01

Customer : Johnson Controls

Subject : Illumination plants' monitoring

CUSTOMER ISSUE :

Lots of modern structures and buildings, like the KL tower in Kuala Lumpur, have an external illumination plant made by columns (or rows) of many lights.

Due to the adverse environmental conditions (i.e. wind or vibrations) or simply the wear and tear of time, the lamps fail.

When the light in a certain column goes below a fixed level, a signal has to be given to the maintenance personnel, who provides the replacement of the damaged lights.

OUR SOLUTION:

Since the current decreases when one or more lamps failure, using the DIA01 and a current transformer (requested only for values higher than 5A) for every column of lights, it's easy to know exactly if and where a lamp is broken.

The unit releases when the current goes below a certain level and allows in this way to send an alarm signal.

ACHIEVED BENEFITS:

- Simple and easy to set solution.
- Selective detection of failures in light column.
- Cheap but reliable control system



Control



Safety



Dupline