Connect & Control

Light control based on external data

Controlling street lighting on the basis of external information technologies

Luminizer is an open management and control platform, suitable for all brands of luminaires and hardware used in the public lighting installation. Interfaces with external data sources enable to provide light on demand; more light when the situation demands it and less light when possible.

LINKS WITH EXTERNAL DATA SOURCES

The Luminizer management and control software is developed in such a way that it supports external data sources. This makes it possible to control the light level on the basis of external information. For example, systems such as traffic measurement applications and weather stations can be connected to Luminizer to adjust the light level to current road conditions.

- Traffic measurement applications
- Crowd management systems
- Other external data sources

Smart City applications

The possibility to connect Luminizer software with external data sources offers opportunities for the city of tomorrow. Consider, for example, linking intelligent cameras and counting devices to lighting for crowd management at events. By using sound sensors in crime-prone places, the light level can automatically be increased as soon as the number of decibels exceeds a set limit.

MORE INFORMATION

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North-Holland main road N207

The lighting on main road N207 is dimmed as much as possible to save energy and costs. The light level is based on the current traffic intensity to ensure road safety.

The Luminizer control software requests the current traffic intensity of the N207 from the NDW traffic measurement database every five minutes. The number of vehicles is always compared with the set limit value for each dimming group. If the number of cars exceeds the limit, the light intensity automatically increases. If, after that and for a longer period of time, the number of cars on the road is actually less than the set lower limit, the light level goes down again. The system adjusts slowly and prevents from sudden changes of the light intensity.

The Province of North-Holland has defined three dimming groups for the N207. One group for the luminaires at intersections, a group for the luminaires just before the intersections and a third group for the other luminaires on this main road. Each dim group is controlled separately; for example, dimming group 1 goes to 90% lighting when there is 1.000 vehicles passing by per hour, while the lighting in dimming group 2 goes to 70% and in dimming group 3 to 50%.

If no data is received from the NDW traffic measurement system, the lighting automatically switches to a pre-set light level to maintain good visibility on the road.