ENERGY-EFFICIENT AND COST-EFFECTIVE CAR PARK LIGHTING

▼ Project data

Project owner:	Sparkasse Mainfranken
Lighting:	Regiolux
Project finalised:	2009
Application:	Car park
Product group:	Dimming, Controls
Used equipment:	PCA T5 EXCEL one4all

Sparkasse Mainfranken Würzburg has around 1800 employees and a network of 138 branches and offices, which makes it one of the largest financial institutions of its kind in Germany. In renovating its headquarters it was decided also to install a modern lighting system in the car park. This lighting system is characterised by energy efficiency, impressive economy, high reliability and exceptional safety.

The old lighting system comprised 180 luminaires with 1 x 58 W T8 fluorescent lamps and magnetic ballasts and was replaced by efficient linear luminaires with T5 fluorescent lamps. There are now 210 pendant luminaires “peanut-H T5” from Regiolux with 2 x 35 W T5 fluorescent lamps and PCA EXCEL one4all lp dimmable electronic ballasts from TridonicAtco. Despite the 40 percent higher installed electrical power, Sparkasse Mainfranken will save more than 13,000 kWh each year thanks to the corridorFUNCTION. The associated CO_2 savings are 21 t, reducing the burden on the environment considerably.

The luminaires are controlled via presence sensors that are all connected via a bus cable (EIB). The simple cabling and also the ease of putting the system into operation caused impression.

The system is now operated in corridor mode from early morning to late evening. At other times the luminous flux is reduced to 5 percent within thirty seconds of the system detecting no presence, and the lights are switched off completely after a further three minutes. Reducing the luminous flux in this way leads to considerable energy savings and therefore rapid amortisation of the new lighting installation. On the basis of a comparable light output from the original installation the payback time is just a little more than three years.

Underground car parks, corridors and stairwells can all be equipped with energy-saving and money-saving lighting thanks to the unique corridorFUNCTION from TridonicAtco. Existing lighting systems can be easily upgraded.

For more information on corridorFUNCTION and the specially developed amortisation calculator go to www.corridorfunction.com.

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