

application report



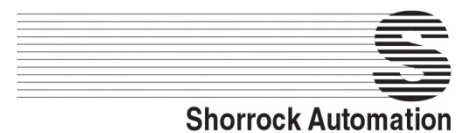
Project NMMU South Campus Library Building
Client NMMU (Nelson Mandela Metropolitan University)
Location Port Elizabeth, South Africa
Completion Date 25 June 2010 (Lighting Upgrade)

Project Overview

The library's lighting needed to be upgraded due to following factors:

- The cost of maintenance on the existing lighting has become very expensive.
- The existing light fittings were not efficient as they did not supply sufficient lighting.
- A lot of light has been wasted into the ceiling space with the previous installation.
- The new light fitting will automatically switch off when nobody is in the area, therefore be able to save energy and cost.

Contract investment	27 million ZAR
Number of floors	four
Total space	14,000 m ²
Light Fittings	over 3,000



Technology Used

Electrical Consulting Engineering firm, CA Du Toit designed the light fittings in addition to the lighting system. The lights were controlled by DALI and the light fittings were connected and powered by means of WAGO's WINSTA® cables and connectors.



Scope of Installation

- Remove all existing internal light fittings in the library and replace them with new efficient low brightness fittings.
- Provide adequate lighting to all areas with ease of control.
- Energy saving light fittings using electronic control gear.
- Lighting to be controlled to give the right amount of light for the situation. i.e. dimming with **D**igital **A**ddressable **L**ighting **I**nterface (DALI) control gear.
- Presence detection to be used for switching of light fittings.



Amount of WINSTA connectors and cables used

- 3,148 pieces of 0770-2105 connectors
- 3,148 pieces of 0771-9985/0206-0301 cord sets



Cost saving

This project showed a cost saving on labour of over 60% with the biggest advantage being that of eliminating any possibility of errors due to the use of pre-molded and pre-tested WINSTA cord sets.

About Us

Shorrock Automation (1975) is a South African company and is, along with Industrial Automation, very involved in the fields of Building Automation and Installation. Shorrock represents German based company WAGO, who offer a wide range of solutions across all market sectors. WAGO is, with their vast product offering, one of the leading international, and especially European, Building Automation solution providers, and definitely the market leader in the field of high speed and totally secure electrical Building Installation.



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