

DALI Control

Lighting Control System

Introduction

The lighting controls scope of work is based upon maximum flexibility and maximum control. It provides a digital lighting system that can typically be reconfigured without the need to re-wire, while providing control and status down to the individual ballast.

The lighting control system is to be a DALI (Digital Addressable Lighting Interface) system with DALI controlled fixtures and DALI controllers throughout the interior space. The lighting controllers, ballasts, transformers, drivers, emergency fittings and other electronic control gears and devices are to fully comply with the DALI standard (IEC 62386) enabling devices from multiple manufacturers to be used in the system.

DALI Lines are to be linked on an Ethernet network using DALICONTROL BM-DALI Line Controllers from Clipsal to provide computer control, configuration and analysis as well as occupant control from computers in their workstations and offices.

The lighting system must provide manual control, scheduled occupancy control, automatic occupancy control and daylight harvesting to dim down the electric lighting in response to daylight admittance.

The lighting controls are to utilize time schedules, occupancy sensors, light sensors and switches to control the lighting in the interior spaces on each floor. The overall intent is to provide electric light only when the space is occupied and to provide as little electric light as is necessary to achieve the required light level for the work plane.

The Line Controllers are to automatically monitor the status of all ballasts and emergency fittings on the DALI Lines and to provide the tools to identify and replace ballast and lamp failures.

The successful tenderer is to engage a qualified Clipsal Platinum Integrator trained in DALI and the DALICONTROL lighting system, to program and commission the system.