

System Description

The lighting control system shall consist of multiple DALI Lines linked to form a building-wide solution using intelligent BM-DALI Line Controllers connected on an Ethernet network.

As DALI is a distributed control system all DALI Line Controllers, DALI Group Controllers and other DALI Electronic Control Devices must co-exist enabling devices from different manufacturers to be mixed and matched to provide maximum flexibility now and in the future. Controllers must not interfere with each other in compliance with the DALI standard (IEC 62386).

The DALI system shall be capable of incorporating DALI Electronic Control Gears (ECGs) from multiple vendors including:

- Ballasts for linear and compact fluorescent lamps
- Transformers for low voltage fittings
- LED Drivers including RGB devices
- Control Gear for high pressure discharge lamps
- Relay and Output Modules
- Exit signs and Emergency light units
- Blind Controllers
- Future DALI ECGs from various manufacturers

The system is to be capable of incorporating a wide range of DALI Electronic Control Devices (ECDs) from multiple vendors including those shown in the list below. These should include but not be limited to wall and ceiling controls, occupancy sensors and light level sensors.

- BM-DALI Line Controllers
- Group Controllers
- Room Controllers
- Partition Controllers
- Occupancy Sensor Interfaces
- Light Sensor Interfaces
- Remote Controllers
- LCD Controllers and Touch Panels
- Access Controllers and Security Panels
- Audio Visual Systems
- SMS/Email Communications modules
- Future DALI ECDs and controllers from various manufacturers