multiload
spectrum

Lighting Controls Made Simple

cost effective - non commissionable - maintenance free

multiload spectrum

Lighting Control Made Simple

Need a reliable, easy-to-install lighting control solution? Our Multiload Spectrum system is designed for projects such as residential houses, restaurants, offices and schools. It gives you all the benefits of advanced lighting control without the hassle.

Spectrum offers advanced features while keeping installation and setup straightforward, ensuring you can deliver quality lighting control without complexity or unnecessary expense.

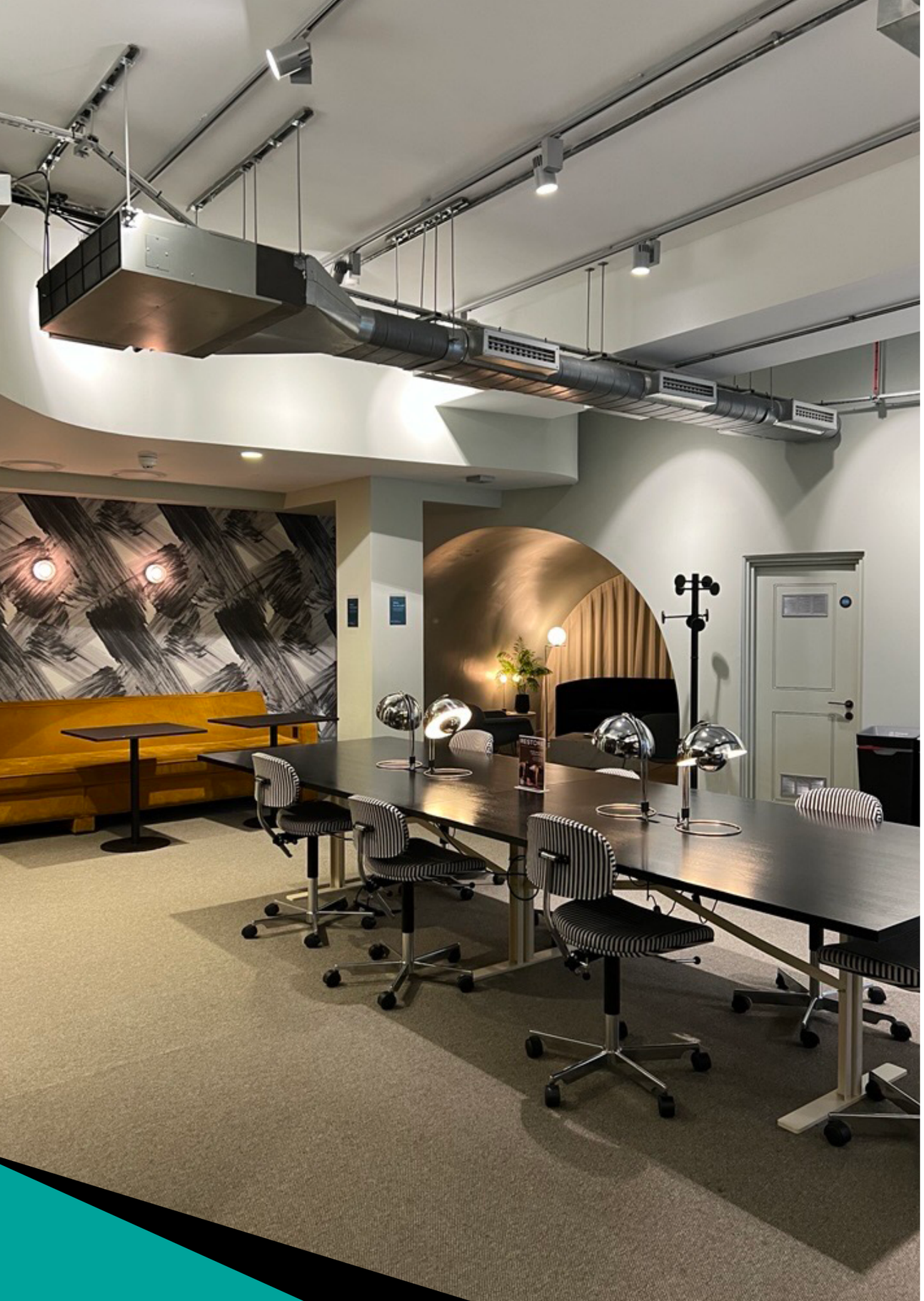
Why Choose Spectrum for Lighting Control?

- **Quick & Easy Installation –** Runs on conventional wiring although we use the DALI protocol to send the messages. Just link Spectrum devices with a 2-core cable. Reduces complexity and requires less cabling as only one cable is required for multiple devices.
- **Part L Compliant –** Regulation aims for all new homes and commercial buildings to produce fewer carbon emissions.
- **Smart & Flexible –** Set up different lighting scenes for any space, whether it's a cosy restaurant, kitchen diner or a school classroom / office environment.
- **Energy Saving –** Built-in sensors adjust lighting based on occupancy and daylight, cutting energy costs.
- **Simple Controls –** Scene plates or rotary dimmers give users full control with minimal training.

For more details, contact us:

multiloadspectrum.co.uk
01252 560800

MADE IN BRITAIN



Key Features

Easy Scene Control
Set up different lighting moods with smooth dimming and control over the colour temperature (tunable white).

Built-in Sensors
Lighting can be automatically adjusted based on movement and natural light to improve comfort and efficiency.

User-Friendly Controls
Scene plates or rotary dimmers give users full control with minimal training.

Versatile for Standalone or Integrated Solutions

Multiload Spectrum products are versatile and can be used either as standalone devices or as part of a lighting control system solution.

When used standalone, the Hex Switches can be ignored, providing a straightforward installation without additional configuration.

For integrated solutions, the Hex Switches enable flexible system setup without needing commissioning.

Easy Configuration with Hex Switch
At the heart of its unique design are the Hex Rotary Switch and the Broadcast or Group Mode Selector, which allow installers to easily configure the system during installation.

Broadcast Mode is a straightforward setting where all devices work together in unison, making it perfect for areas that require uniform lighting control.

Group Mode allows devices to operate individually or within defined groups. By using the Hex Rotary Switch, installers can assign 16 defined groups each device to a particular group, creating tailored lighting zones.

Perfect for your project
Whether you're wiring a new home, upgrading a school, or fitting out a restaurant, our Multiload Spectrum lighting control system makes your job easier. It's quick to install, easy to maintain, and gives your clients topnotch lighting control without the complexity.

A Comprehensive Product Range

multiload spectrum

ColourDIM Rotary Dimmer

Adjusts colour temperature, fade rates, and light levels. Compatible with MK Grid Plus and other flat accessory plates.

ML-CDIM20 | ML-CDIM20-MKGP-W | ML-CDIM20-MKGP-B

Power Supply (PSU)

Provides a stable 250mA DALI DC voltage for control devices. Available in both DIN-rail and inline versions.

ML-D-PSU-INL | ML-D-PSU-DIN

DALI Filter

If the installation uses DALI luminaires you can use the inline filter to assign each luminaire to a group. Doing it this way means you don't need a commissioning engineer or a programming tool.

ML-D-FILTER-INL

Multiload Spectrum Handset

The Multiload Spectrum Handset allows for control through the Passive Infrared Detector via infrared commands. Using the handset, users can control ON/OFF, dimming, scene calling, and colour change. It adds flexibility and ease of operation to the Multiload Spectrum system.

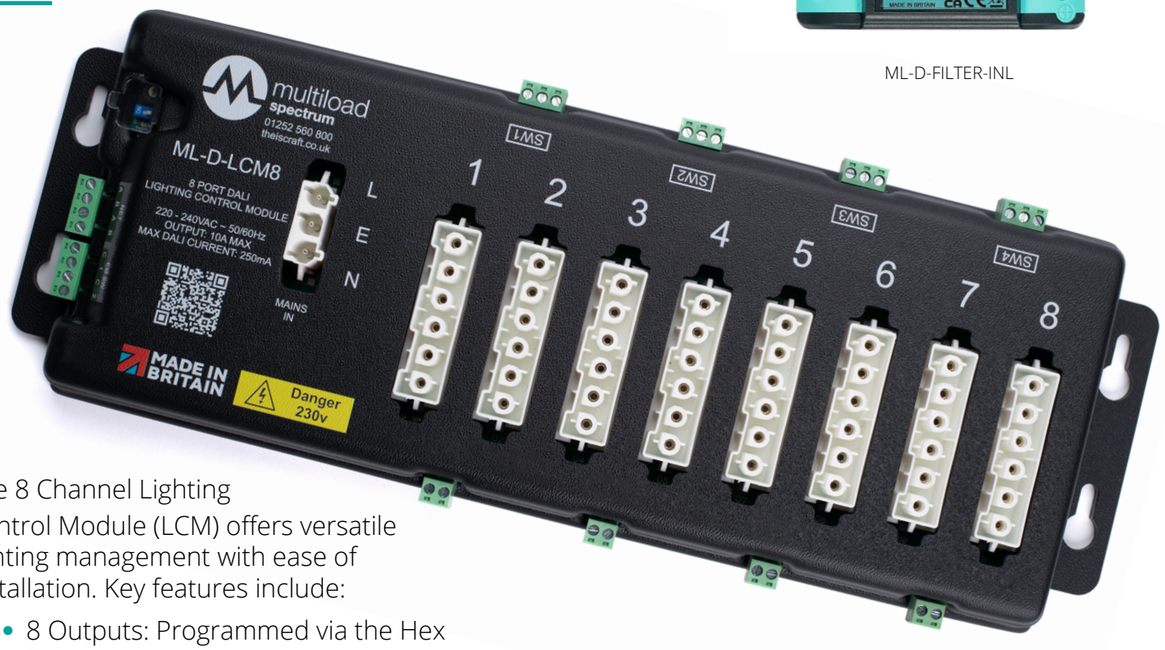
ML-IUHS

Relay

Controls non-DALI loads with latching, volt-free contacts (16A resistive/10A inductive). Available in DIN-rail and in-line versions.

ML-D-RELAY-INL | ML-D-RELAY-DIN

8 Channel Lighting Control Module (LCM)



The 8 Channel Lighting Control Module (LCM) offers versatile lighting management with ease of installation. Key features include:

- 8 Outputs: Programmed via the Hex Switch.
- Inputs: 4 sensor inputs and 4 retractive switch inputs.
- Integrated Power Supply: A 250mA inbuilt power supply.
- Simple Setup: Easily configured using the Multiload Spectrum Handset.
- Capacity: Maximum box load of 10 amps.

ML-D-LCM8

Switch Interface

Compact module for centre retractive switch control. Available as an emergency test device for DALI luminaires.

ML-CDIM20-SW2

Phase Dimmer

A 300vA device designed for non-DALI lamp loads, including LED retrofit lamps. Compatible with leading and trailing-edge dimming.

ML-D-PD-300-INL
ML-D-PD-300-DIN

MADE IN BRITAIN

Passive Infrared Detector (PIR)

Available with 6m or 12m detection range lenses, supporting daylight linking and user adjustments via the Multiload Spectrum Handset.

ML-D-PIR-6W | ML-D-PIR-12W | ML-D-PIR-6B | ML-D-PIR-12B

Scene Plate

Provides manual control of lighting where specific light levels or scenes are required. Features 5 programmable scenes, enabling individual adjustment of luminaires in groups and scenes. Can be remote-controlled for ON/OFF, dimming, colour change, and scene recall. Available in stainless steel, white, or black finishes.

ML-D-4SD-SS

Classroom Schematic

This schematic outlines a **plug-and-play** Multiload Spectrum lighting control system for classrooms, requiring no commissioning for easy setup.

Key Components:

1. **PIR Sensors –** Detect occupancy for automated lighting.
2. **Switch Interface –** Enables manual control with standard switches.
3. **Retractive Switches –** Provide user control over lighting groups.
4. **Power Supply –** Powers the DALI bus.
5. **DALI Filters –** Enables Luminaires to be manually assigned to a group.

Grouping & Control:

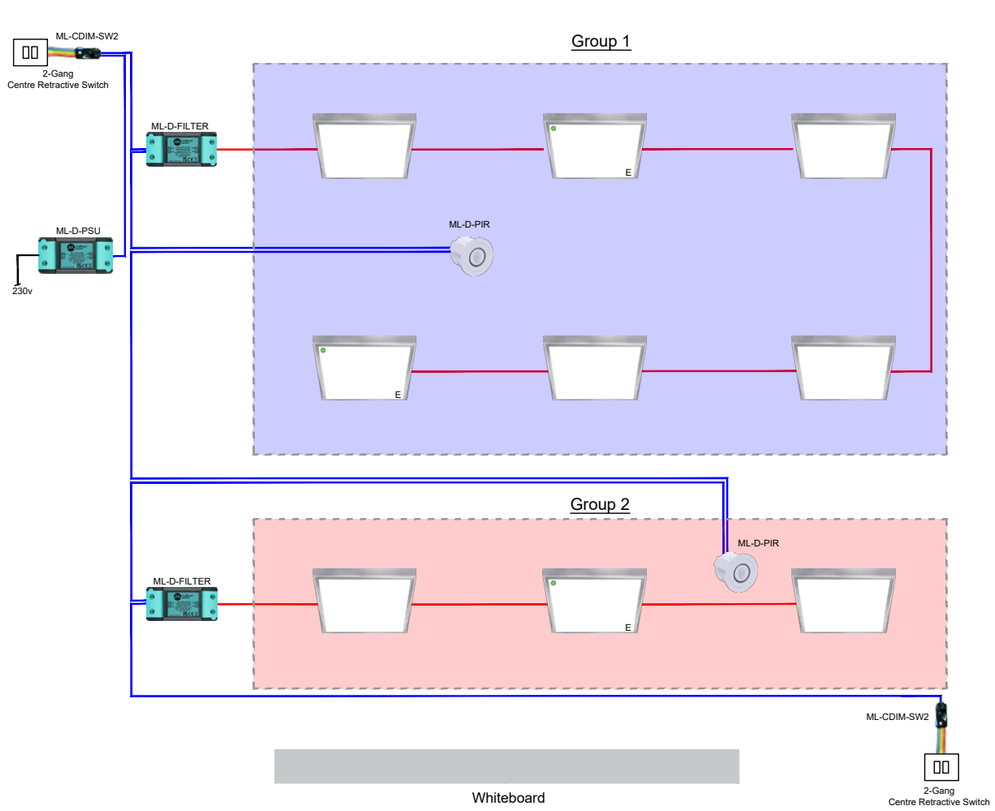
- Two lighting groups controlled by PIR sensors and manual switches.
- Standard switches can be integrated via the Switch Interface.

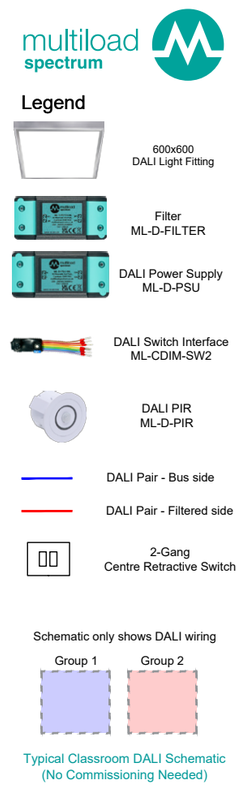
Power & Wiring:

- Operates on **16V DALI power** with filtering for stability.
- **230V mains supply** for lighting plus 2-core Ebus cable for communication.

Functionality:

- **Energy-efficient automation** via PIR sensors.
- **Manual overrides** through switches.
- **Simple, flexible, and user-friendly** lighting control for classrooms.





Typical Classroom DALI Schematic
(No Commissioning Needed)

Residential Schematic

This schematic outlines a **plug-and-play** Multiload Spectrum lighting control system for a kitchen / dining room requires no commissioning for easy set up.

Key Components:

1. **Phase Dimmer –** Enables dimming.
2. **Relays –** Switches non-DALI loads.
3. **ColourDIM Rotary –** Manual dimming control.
4. **Power Supply –** Powers the DALI bus.
5. **Switches –** Provide additional manual control.
6. **DALI Filters –** Enables Luminaires to be manually assigned to a group.

Zones & Control:

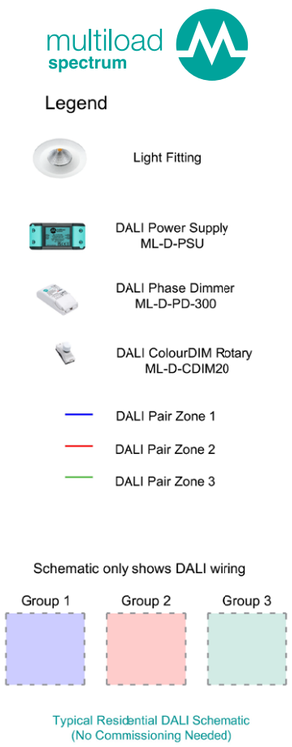
- Three **Zones** for separate lighting control.
- Lighting groups (Group 1, 2, 3) enable independent operation.
- **Multiple ColourDIM Rotary dimmers** allow localised dimming

Power & Wiring:

- **16V DALI power supply** with filtering for stability.
- **230V mains supply** for lighting plus 2-core Ebus cable for communication.

Functionality:

- **Dimming & switching** across zones.
- **Manual & automatic control** via dimmers and relays.
- **Simple installation** with a non-commissioned setup.



Typical Residential DALI Schematic
(No Commissioning Needed)

Office Schematic

This schematic outlines a **plug-and-play** Multiload Spectrum lighting control system for an office space, requiring no commissioning for easy setup.

Key Components:

1. **Power Supply –** Powers the system.
2. **PIR Sensors –** Automate lighting via motion detection.
3. **Scene Set Plate –** Manual lighting scene selection.
4. **Filters –** Enables Luminaires to be manually assigned to a group.

Grouping & Control:

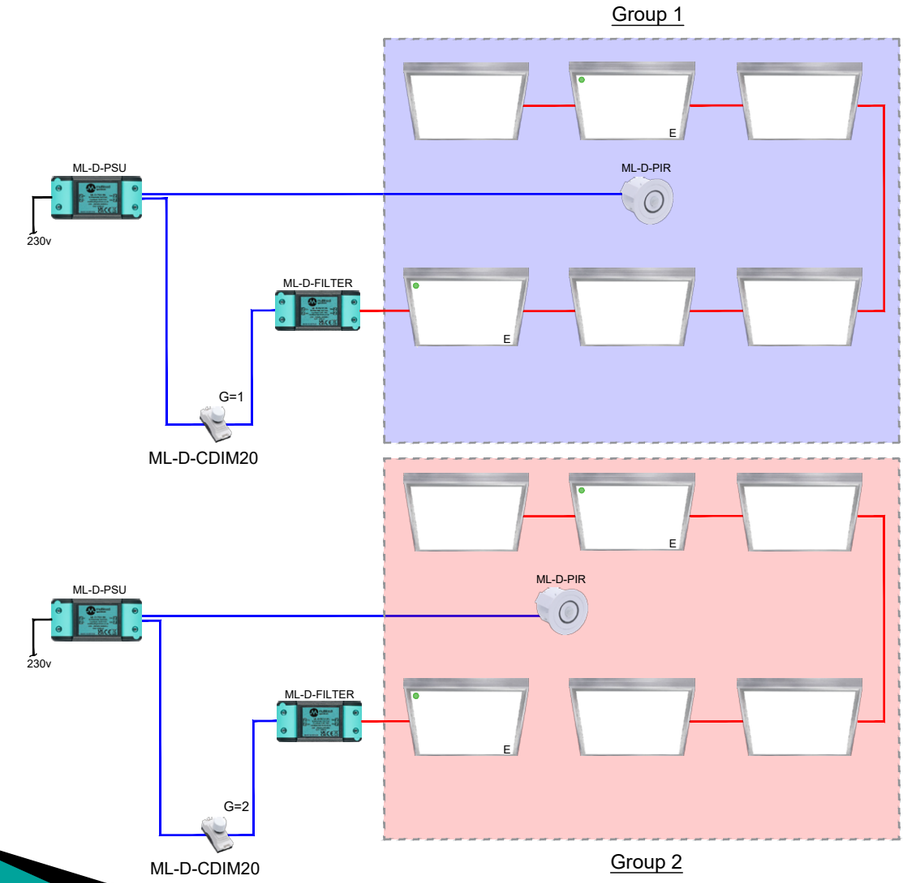
- Two **lighting groups** for independent control.
- **Motion sensors** optimize energy use.
- **Scene plates** allow preset lighting.

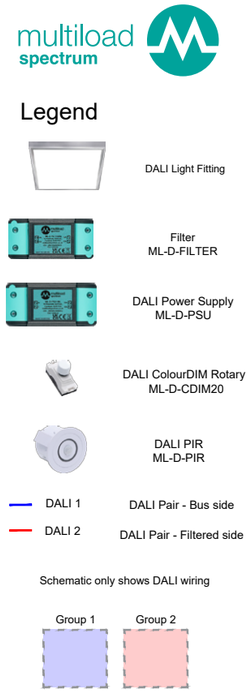
Power & Wiring:

- **16V DALI power supply –** Enables Luminaires to be manually assigned to a group.
- **230V mains supply** for lighting plus 2-core Ebus cable for communication.

Functionality:

- **Automated & energy-efficient** lighting.
- **Customizable scenes** for workspaces.
- **Simple installation** with a non-commissioned setup.





Typical Office DALI Schematic
(No Commissioning Needed)

LCM System Schematic

The **"Typical Classroom Schematic (No Commissioning Needed)"** outlines an efficient, automated lighting system using a pluggable 8way Lighting Control Module for schools.

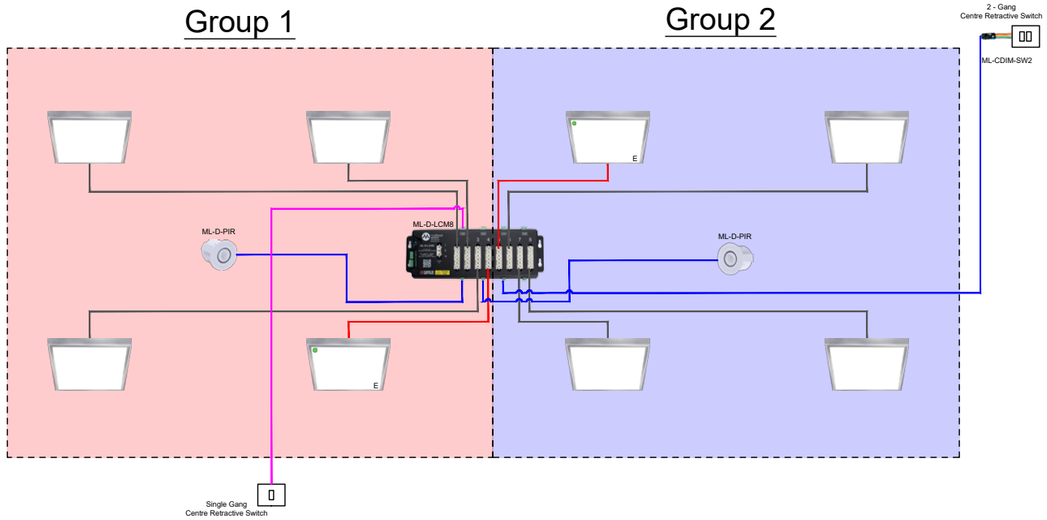
Key Components:

- **Light Fittings –** Provides system lighting and power.
- **PIR Sensors –** Detect motion for automatic lighting.
- **Switch Interface & Retractive Switches** – Allow manual control.

Control & Power:

- **Two lighting groups** for flexibility.
- **Automated & manual control options**.
- **Runs on 230V power, simple setup**.

Perfect for **schools needing energy-efficient lighting**



Typical Office, Classroom or two room Setup
DALI Schematic
(No Commissioning Needed)

TheisCraft

DALI® Alliance

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ELECTRICAL INDUSTRY AWARDS 2023 Winner

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