

# Schools & Education



## Why Use flex7™?

The flex7™ System can offer numerous energy efficient and functional lighting solutions for your school or educational building.

Whether you require daylight linking, corridor hold or separate whiteboard switching our experience in the sector means we can provide you with a lighting scheme perfectly suited to your needs.

- Energy-efficient
- Easy maintenance
- Simple to reconfigure or upgrade system
- Comply with EFA Guidelines & Part L of The Building Regulations
- Eligible for Government's Enhanced Capital Allowance Scheme

# Save Time, Save Energy, Save Money

## Considerations for lighting in education projects:

According to the Carbon Trust, lighting accounts for 20-25% of the total energy used in schools. Significant cost savings can be made by switching to energy efficient lighting equipment. Occupancy sensors alone, can reduce lighting costs by as much as 30%.

Significant time can also be saved onsite when using flex7 products. The system simply plugs-together, cutting installation time by up to 50%, and reducing requirement for skilled labour.



## All areas

### ■ Protected Extra Low Voltage

All of our lighting controls operate at PELV, which means that switch drop cables can be set at any depth in the wall, and won't require extra protection.

### ■ Easy maintenance

The system is modular, and products simply plug-together on site. This means they can easily be replaced or upgraded without disrupting everyday use of the building. Our lighting controls are available with integrated emergency test.

### ■ LSHF cable to BS EN 50525-3-11

All of our prewired leads are available in LSHF cable. LSHF (not to be confused with LSF) is now recommended for use in all public buildings due to the safety implications of using PVC or LSF cable, in the event of a fire.

### ■ Integrated Emergency Test

Our lighting controls are available with integrated emergency test. When using our lighting control device there is no need for separate switches for each circuit or phase, as they can easily be networked together. This means that a single key switch can test emergency luminaires across multiple circuits or phases. Our lighting controls operate at protected extra low voltage, so the voltage at the test switch will operate at below 50V. This avoids scenarios where multiple key switches are grouped in a centralised, multi-gang enclosure with the potential for 415V to be present, which requires extra labelling as per regulation 514.10.1 of BS 7671

## Corridors and circulation areas

### ■ Corridor Hold

Corridor Hold Units from flex7™ will hold lights on in a corridor or circulation area if any of the rooms linked to it are occupied. This is often a requirement for health and safety, or security reasons.

### ■ 2-Stage Dimming Control

Luminaires in corridors can be programmed to dim down to 50% when a corridor has been empty for a set period of time. After a further period of time lights will turn off completely.



## ■ Timeclock

The unit is designed to hold lights controlled by sensors ON for pre-set time periods during the day. A typical installation would involve holding certain lights ON in a building - often those in corridors and circulation area, during normal working hours, and allowing them to revert back to occupancy control at all other times.

## Classrooms

### ■ Absence Sensing

Ideal for use in classrooms, lights need to be turned on manually at switch on the wall, but will turn off again automatically once the room is vacant. This option offers greater potential for energy saving than occupancy control, as lights will only be turned on when needed.

### ■ Daylight Linking Sensors

Usually incorporating absence or occupancy detection, daylight linking sensors save energy by switching lights off/dimming lights down in a room if there is adequate natural light. The controls are programmed to maintain a constant light level, so that lights will turn on again as it gets dark outside. The ZoneLite Type T has graduated daylight dimming options available, which mean that lights further away from the windows will have a brighter offset.



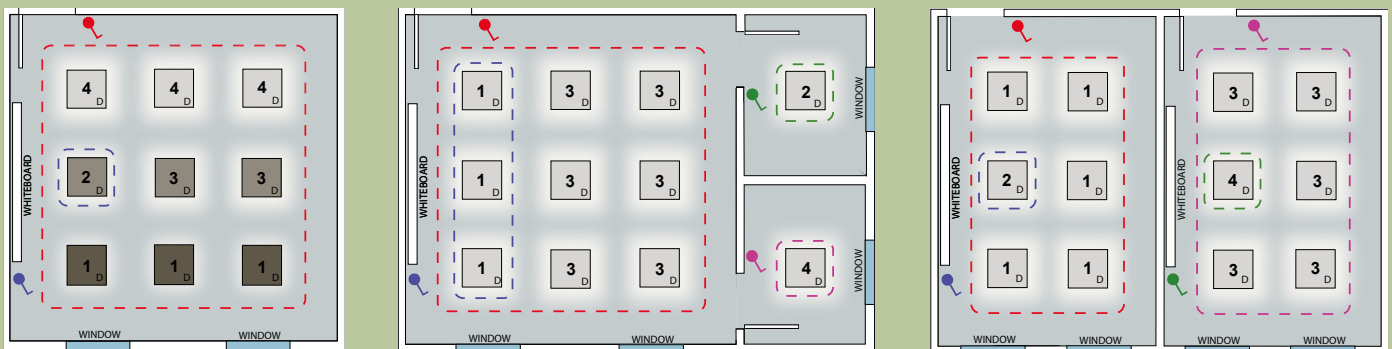
### ■ Independent switching of whiteboard or projector lights

Certain configurations on our ZoneLite Type T allow independent switching of the whiteboard or projector lights. This allows lights closest to the whiteboard to be switched off or dimmed down to ensure that content can be seen clearly.

## flex7 ZoneLite Type T - for educational environments

The flex7 ZoneLite is a lighting connection box with integrated lighting control. It is preprogrammed with 15 distinct lighting configurations common to teaching and educational environments. With 4 lighting channels it offers a solution for all key lighting control strategies in a typical school. It provides options for absence/presence/daylight linking/graduated daylight dimming. Independent switching of whiteboard or projector lights, emergency test, corridor hold, last man out switch and scene setting.

Below are examples of the types of configuration programmed into a ZoneLite Type T:





## WCs, cleaning cupboards etc.

### ■ Occupancy Sensing:

Occupancy sensors are ideal for use in areas such as WCs, stairwells and storage areas that are frequently unoccupied. Lights turn on automatically when someone enters a room, and turn off again once the room has been empty for a set period of time.



## Staffrooms and offices

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## Past projects

Flex Connectors have over 18 years of experience in the education sector. Our Internal Project Department can help design your lighting layout, advise you on your requirements, and also offer the option to organise project packing on a room-by-room or circuit-by-circuit basis.



Innovation Centre, Uni of Northampton



Discovery Centre, Uni of Dundee



Matthew Boulton College, Birmingham



Technium Building, Pembroke Dock



St Joseph's School, Swindon



Djanogly Academy, Nottingham