

flex7 ZoneLite

Lighting connection & control unit

Type T- Configured for use in teaching and educational environments





flex7 ZoneLite Features & Benefits

A lighting connection & control solution in one, that comes preprogrammed with up to 15 distinct lighting configurations common to teaching and educational environments.

Offering a prefabricated alternative to traditional wiring, the ZoneLite Type T is designed for use in educational environments. It provides options for absence/presence/daylight linking/graduated daylight dimming lighting

control, independent switching of whiteboard or projector lights, emergency test, corridor hold, last man out switch and scene setting.

Control up to 4 lighting channels

Available with 4, 12, 16 or 20 outlets

15 preconfigured lighting layout options

Cost Effective

System simply plugs together, saving time on site, and reducing need for skilled electricians.

Protected Extra Low Voltage (PELV)

All sensor heads and switch drops operate at PELV. This allows us to use lightweight plug-in switch drops and sensor leads. In particular because our switch drops operate at PELV they do not require enclosing in an earthed metallic covering nor the protection of an RCD as is often the requirement for mains switch drops.

Quick And Easy To Wire



Large wiring compartment.
Remove cover with a single screw.

No Commissioning Required

Just choose the required configuration using the rotary selector switch on your ZoneLite (detailed in following pages).

Global Switch Inputs

Each ZoneLite can also accept up to 3 global switch commands:

Emergency Test - tests emergency fittings.

Last Man Out - initiates all connected luminaires off.

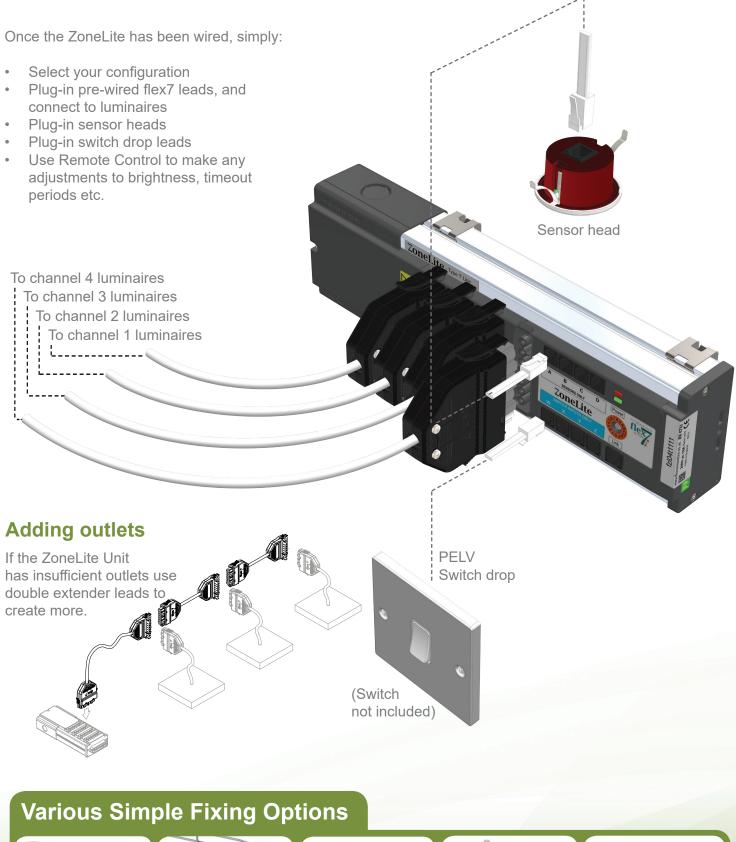
All Lights On - initiates all connected luminaires on.

(Global switch inputs are typically connected to a group of ZoneLites).

Corridor Hold

Interlinking corridor hold between a group of ZoneLites allows circulation areas and exit routes to be illuminated when outlying spaces are occupied.

Installation





Conduit Box

Solid Surface Cable Basket Trunking Drop Rods

Configuration Options

Note: Many adaptions to each option are possible during setup. Please enquire if you can't find a configuration that exactly matches your specific requirements.

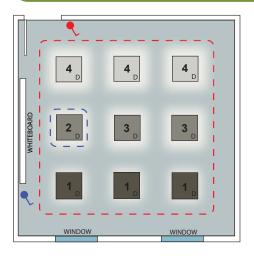
Key:



Channel - represents channel controlling the luminaire

Dimmable Luminaires- if 'D' is not present then denotes non-dimmable luminiaires Shading represents brightness (degree of which represents daylight linking in action

Option 1:



Operation:



Operates all luminaires bound within red dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).

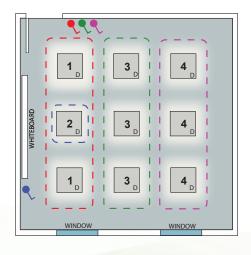


3 stage offset daylight linking - referencing from the window row, each subsequent row has a progressively brighter offset (adjustable).



On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Option 2:



Operation:



Each switch operates luminaires bound within the same colour dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).

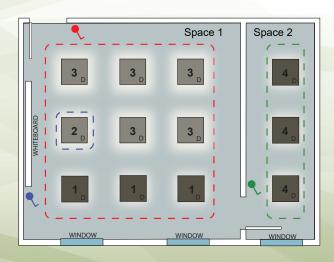


All luminaires daylight link at the same rate.



On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Option 3:



Operation of space 1:



Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).



2 stage offset daylight linking - referencing from the window row, both back rows will have a brighter offset (adjustable).

Operation of space 2:



Operates luminaires bound within the green dotted line - On, Off or Dim (up/down).

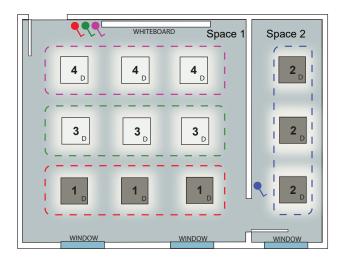


All luminaires in this space daylight link at the same rate.

All areas:



Option 4:



Operation of space 1:



Each switch operates luminaires bound within the same colour dotted line - On, Off or Dim (up/down).



Only window row daylight links.

Operation of space 2:



Operates luminaires bound within the blue dotted line - On, Off or Dim (up/down).



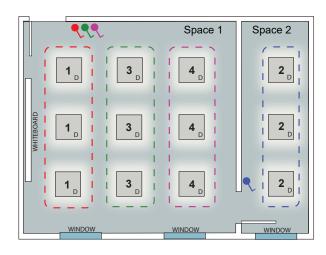
All luminaires in this space daylight link at the same rate.

All areas:



On vacation of each space any luminaires left on will switch off after an adjustable time-out period.

Option 5:



Operation of space 1:



Each switch operates luminaires bound within the same colour dotted line - On, Off or Dim (up/down).



All luminaires in this space daylight link at the same rate.

Operation of space 2:



Operates luminaires bound within the blue dotted line - On, Off or Dim (up/down).



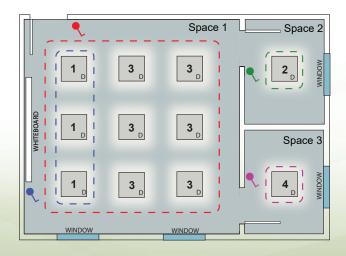
All luminaires in this space daylight link at the same rate.

All areas:



On vacation of each space any luminaires left on will switch off after an adjustable time-out period.

Option 6:



Operation of space 1:



Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).



All luminaires in this space daylight link at the same rate.

Operation of space 2 & 3:



Each switch operates luminaires bound within the same colour dotted line - On, Off or Dim (up/down).



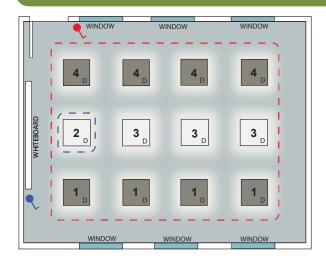
Luminaires in each space daylight link.

All areas:



Note: Many adaptions to each option are possible during setup. Please enquire if you can't find a configuration that exactly matches your specific requirements.

Option 7:



Operation:



Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).

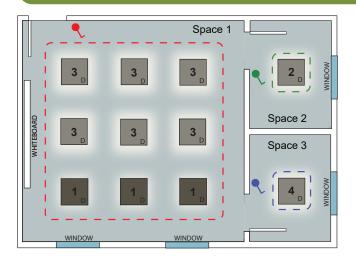


Both window rows daylight link independently of one another.



On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Option 8:



Operation of space 1:



Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).



2 stage offset daylight linking - referencing from the window row, both back rows will have a brighter offset (adjustable).

Operation of space 2 & 3:



Each switch operates luminaires bound within the same colour dotted line - On, Off or Dim (up/down).



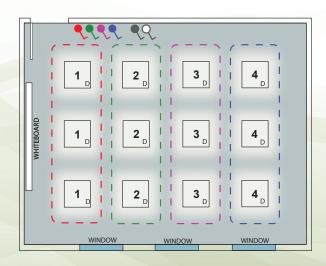
Luminaires in each space daylight link.

All areas:



On vacation of each space any luminaires left on will switch off after an adjustable time-out period.

Option 9 Scene Setting:



Note: Uses conventional switches (not supplied).

Operation when: Mode select switch ${\bf Q}$ is in channel control position:

Operates all channel 1 luminaires - On, Off or Dim (up/down).

Operates all channel 2 luminaires - On, Off or Dim (up/down).

Operates all channel 3 luminaires - On, Off or Dim (up/down).

Operates all channel 4 luminaires - On, Off or Dim (up/down).

Operation when: Mode select switch Q is in scene control position:

Recalls (or sets) scene 1.

Recalls (or sets) scene 2

Recalls (or sets) scene 3.

Recalls (or sets) scene 4.

All areas:

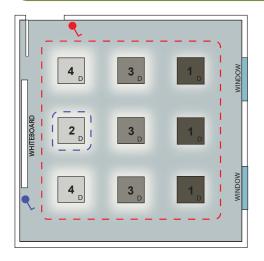


On vacation of the space any luminaires left on will switch off after an adjustable time-out period.



Master switch operates ALL channels 1,2,3 and 4 Together - On, Off or Dim (up/down).

Option A:



Operation:

Operati

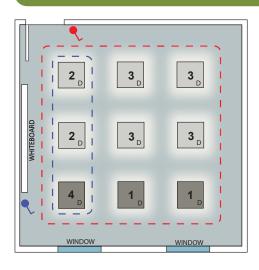
Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).

Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).

3 stage offset daylight linking - referencing from the window row, each subsequent row has a progressively brighter offset (adjustable).

On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Option B:



Operation:

Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).

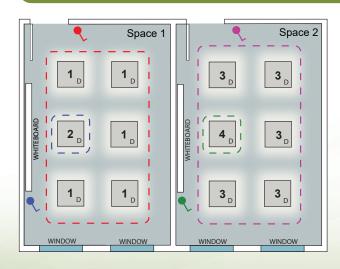


2 stage offset daylight linking - referencing from the window row, both back rows will have a brighter offset (adjustable).



On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Option C:



Operation of space 1:

₹.

Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).

9

Switches the whiteboard luminaire independently - On or Off (bound within blue dotted line).

All luminaires in this space daylight link at the same rate.

Operation of space 2:

₹.

Operates luminaires bound within the purple dotted line - On, Off or Dim (up/down).

7

Switches the whiteboard luminaire (bound within green dotted line) independently - On or Off.



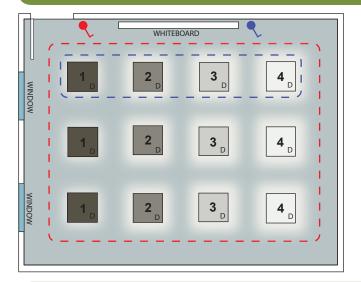
All luminaires in this space daylight link at the same rate.

All areas:



Note: Many adaptions to each option are possible during setup. Please enquire if you can't find a configuration that exactly matches your specific requirements.

Option D:



Operation:



Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line). (Note that in this particular option this is only possible when main lights are on).

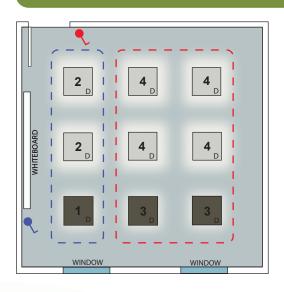


4 stage offset daylight linking - referencing from the window row each subsequent row has a progressively brighter offset (adjustable).



On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Option E:



Operation:



Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).



Switches the whiteboard luminaire/s independently - On, Off or Dim (up/down) (those bound within blue dotted line).

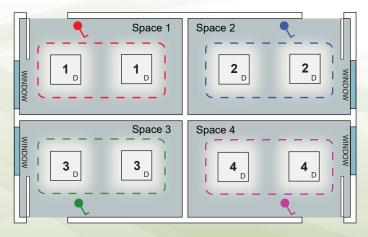


2 stage offset daylight linking - referencing from the window row, both back rows will have a brighter offset (adjustable).



On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Option F:



IMPORTANT: Configuration F is usually reserved for customised user specific configurations. On some occasions, when not required for this purpose the default configuration above may be installed instead.

Operation of space 1:



Operates luminaires bound within the red dotted line - On/Off or Dim (up/down).

Operation of space 2:

9

Operates luminaires bound within the blue dotted line - On/Off or Dim (up/down).

Operation of space 3:



Operates luminaires bound within the green dotted line - On/Off or Dim (up/down).

Operation of space 4:



Operates luminaires bound within the purple dotted line - On/Off or Dim (up/down).

All areas:



Ordering from the flex7 ZoneLite Range

ZoneLite Lighting Control Units Type T (for teaching and educational environments)



4-Way, 4 Channel, Type T 16-Way, 4 Channel, Type T

20-Way, 4 Channel, Type T

fzI04t1111 fzl16t4354 Note: the last 4 numbers of the part number represent the number of outlets per channel. For example an fzl16t4354 has 4 outlets for ch1, 3 for ch2, 5 for ch3 & 4 for ch4 (alternative splits may be available on

fzl20t5465 enquiry).

ZoneLite Sensor Heads



Master occupancy head

Master occupancy head + light sensing

Slave occupancy head

fzh/pir

frc/user

Use slave heads to increase the range of any master occupancy head up to 6 fold (5 max. can fzh/pir/ls be connected in parallel to any Master). Each fzh/pir/sl

slave head comes complete with a 'Y' adaptor to

facilitate parallel connecting.

ZoneLite Remote Controls



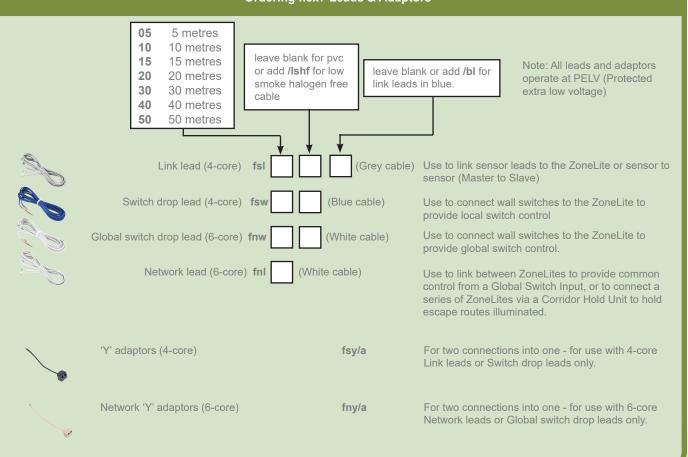
Setup Remote Control User Remote Control

fzl/rc

Note: At least one Setup Remote Control will be

required for setting up your ZoneLite/s

Ordering flex7 Leads & Adaptors



Ordering flex7 Luminaire Connections



For all Pre-wired Luminaire Leads, Plugs, Double Extender Leads and any other parts not shown here, please refer to our main flex7 catalogue.

ZoneLite Units Length 48.94 ZoneLite unit length 4 way outlet: 315mm 16 way outlet: 615mm 20 way outlet: 715mm All measurements are in millimetres

Rating

Nominal 230V~ 16A, 50Hz, Class 1

Manufactured in black PA6 UL94 V-0 rated, PC/ABS, and Anodised Aluminium.

7 contacts per outlet each rated at 16 amps, using the flex7 outlet format.

Total system rating: 16A.

Operating range: -10°C to 40°C

IP20

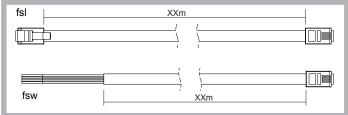
Incoming terminals accept 3 x 2.50mm², 2 x 4.00mm² or 1 x 6.00mm² conductors.

Load (per channel)

Fluorescent & incandescent lighting : 6A
Compact fluorescent lighting : 3A
Maximum number of ballasts (per channel):
DSI Digital control : 25
DALI Digital control : 25

Compliance: LVD-2006/95/EC & EMC-2004/108/EC

flex7 Sensor Link & Switch Drop Leads



Lengths

Comes in lengths up to 50 metres, refer to price list.

Specification

Connectors: 4P4C modular jack, RJ11 style
Conductor: Stranded Copper (PVC variant)

Stranded Tinned Copper (LSHF variant)

28 a.w.g.

Insulation: PP (PVC variant)

PE (LSHF variant)

Jacket: PVC (PVC variant)

PE (LSHF variant)

Standard IEC 332-1 (PVC variant)

UL1581 (LSHF variant)

Insulation DC Resistance @ 20°C: > 500MΩM Conductor DC Resistance @ 20°C: < 17.01Ω/100M

Rated Temperature: 70°C Rated Voltage: 500V

flex7 ZoneLite Occupancy Sensor Heads **Detection Zone** 64 discreet detection zones are acquired by the PIR detector. An object with a higher than Max background temperature will be detected if it moves between any two zones. **Detection Zone** View Y-Y View X-X 5.0m 5.0m 5.0m Suitable for snapping into a Ø 32mm cutout All measurements are in millimetres

Rating

Supply Voltage: 12V DC

Manufactured in white & red PA6 UL94 V-0 rated,

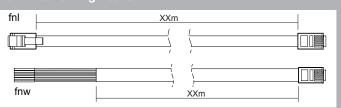
Non-halogen

Compliance: LVD-2006/95/EC & EMC-2004/108/EC

Operating range: -10°C to 40°C

Sensor Range: 7.42m x 5.66m at 2.5m height





Lengths

Comes in lengths up to 50 metres, refer to price list.

<u>Specification</u>

Connectors: 6P4C modular jack, RJ12 style

Conductor: Stranded Copper (PVC variant)

Stranded Tinned Copper (LSHF variant)

28 a.w.g.

Insulation: PVC (PVC variant)

PE (LSHF variant)

Jacket: PVC (PVC variant)

PE (LSHF variant)

Standard: IEC 332-1 (PVC variant)

UL1581 (LSHF variant)

Insulation DC Resistance @ 20°C: > 500MΩM Conductor DC Resistance @ 20°C: < 17.01Ω/100M

Rated Temperature: 70°C Rated Voltage: 500V

Other products in the flex7 lighting connection and control range:

The flex7 System is fully modular, and products simply plug-together. This results in huge reductions in installation time on site, and reduced requirements for skilled labour. The product range is split into three sections - Power up, Light up, and Control.

Power up..

Provide power to your lighting circuit using flex7 eZeBoxes, Single Socket Outlets or Hub Units.

eZeBoxes come in 2, 4, 6, 8, 10 and 12-ways and are 7-pole as standard. If you need to extend your circuit to add luminiares, simply plug an eZeBox extender unit into your starter unit. Alternatively, if you want to add a separate circuit, plug-in an eZeBox Tap-off Unit.



Connect your luminaires to the power supply using our extensive range of pre-wired luminaire leads. These can simply be plugged into any eZeBox



flex connector

and Control

We have a huge range of lighting controls available - all of which can simply be plugged into any eZeBox. We offer occupancy/presence, absence, daylight linking, daylight dependency, manual dimming/switching and remote control. All controls operate at protected extra low voltage.



Contact us:

If you have any questions at all then please give us a ring/ send us an email/ visit the website. www.flexconnectors.co.uk info@flexconnectors.co.uk Tel: +44 (0)20 8580 1066