

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.

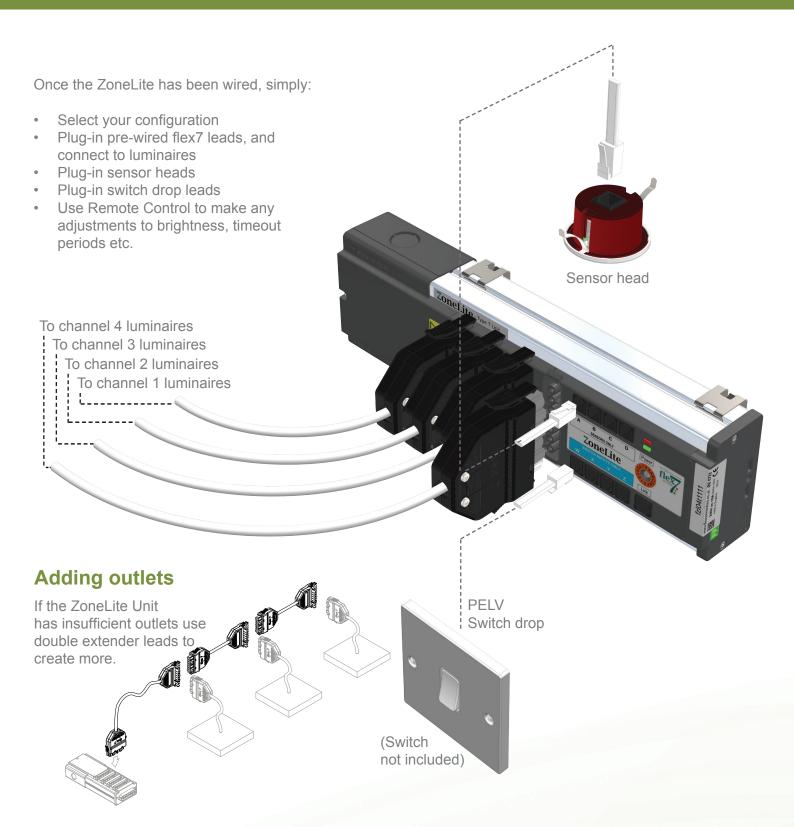
All Lights On - initiates all connected luminaires on.

(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



Various Simple Fixing Options



Solid Surface

Cable Basket

Trunking

Drop Rods

Conduit Box

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.

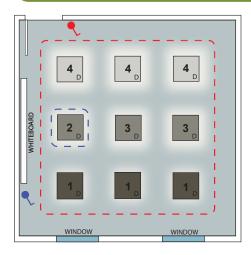
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- Channel - represents channel controlling the luminaire

- 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).

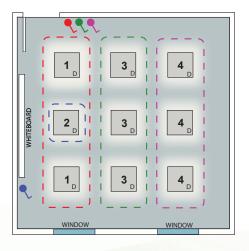
Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).

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).

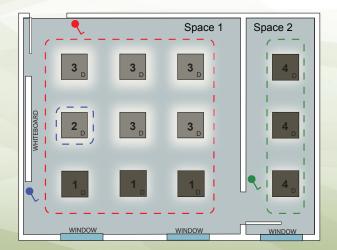
Switches the whiteboard luminaire/s independently - On or Off (those bound within blue dotted line).



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).

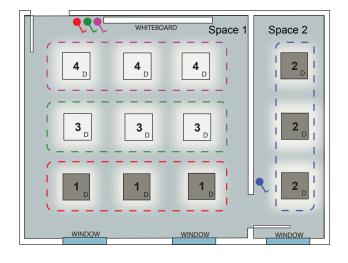
All luminiaires in this space daylight link at the same rate.

All areas:

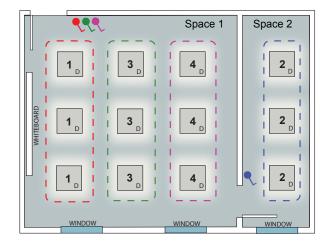


On vacation of each space any luminaires left on will switch off after an adjustable time-out period.

Option 4:



Option 5:



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:

R

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



All luminiaires 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.

Operation of space 1:



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

All luminiaires 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).



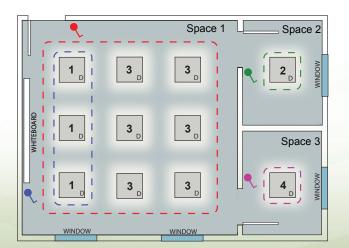
All luminiaires in this space daylight link at the same rate.

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).



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

Switches the whiteboard luminaire/s independently - On or

Operation of space 2 & 3:



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

Luminiaires in each space daylight link.

Off (those bound within blue dotted line).

All areas:

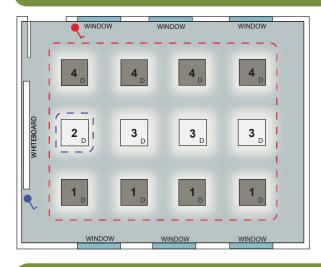


On vacation of each space any luminaires left on will switch off after an adjustable time-out period.

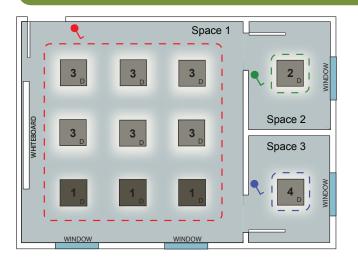
Configuration Options

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.

Option 7:



Option 8:



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.

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).



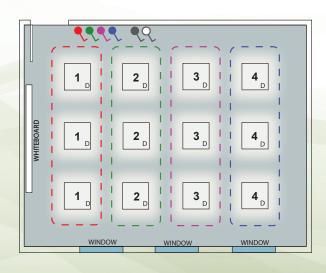
Luminiaires in each space daylight link.

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 \mathcal{R} 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). ٩. Operates all channel 4 luminaires - On, Off or Dim (up/down). Operation when: Mode select switch \aleph is in scene control position: ٩ Recalls (or sets) scene 1. Recalls (or sets) scene 2 Recalls (or sets) scene 3. 9 Recalls (or sets) scene 4.

All areas:

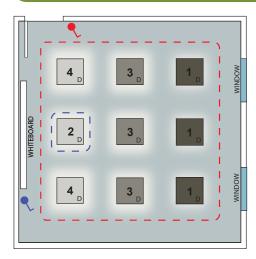
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On vacation of the space any luminaires left on will switch off after an adjustable time-out period.

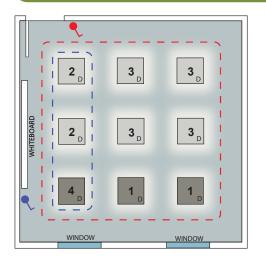
Master switch operates ALL channels 1,2,3 and 4 Together -On, Off or Dim (up/down).

Note: Our policy of continuous improvement means configurations may change from time to time. Please refer to data sheet for latest information.

Option A:



Option B:



Operation:



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



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.



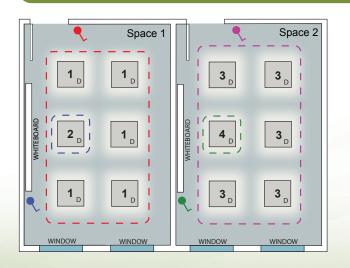
Operates all luminaires bound within the red dotted line - On, Off or Dim (up/down).

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).

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

All luminiaires 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).

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:

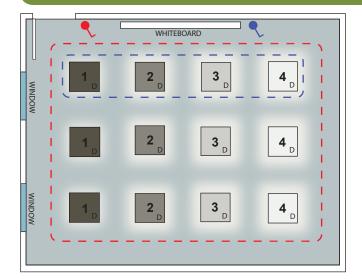


On vacation of each space any luminaires left on will switch off after an adjustable time-out period.

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.

Option D:

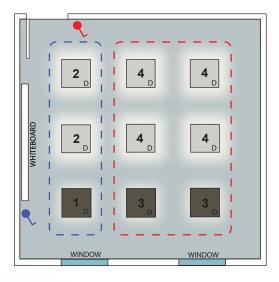


Operation:

•	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:



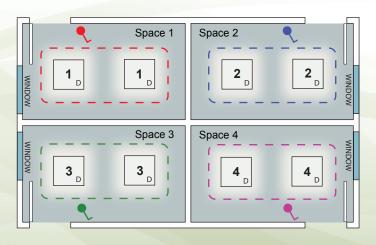
Operates all luminaires bound within the red dotted line -On, Off or Dim (up/down).

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.

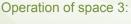
Operation of space 1:



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

Operation of space 2:

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



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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:



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

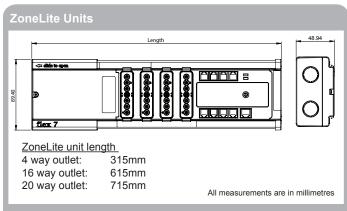
	Ordering from the	e flex7 ZoneLite	Range
ZoneLite Lighti	ng Control Units Type T (for teaching and educa	tional environmen	ts)
	4-Way, 4 Channel, Type T	fzI04t1111	Note: the last 4 numbers of the part number represent
	16-Way, 4 Channel, Type T		the number of outlets per channel. For example an fzl16t4354 has 4 outlets for ch1, 3 for ch2, 5 for ch3
Ŷ	20-Way, 4 Channel, Type T	fzl20t5465	& 4 for ch4 (alternative splits may be available on enquiry).
ZoneLite Sens	sor Heads		
- S	Master occupancy head	fzh/pir	Use slave heads to increase the range of any
	Master occupancy head + light sensing	fzh/pir/ls	master occupancy head up to 6 fold (5 max. can be connected in parallel to any Master). Each
	Slave occupancy head	fzh/pir/sl	slave head comes complete with a 'Y' adaptor to facilitate parallel connecting.
		·	radinate paraner connecting.
ZoneLite Rem	note Controls		
1 00	Setup Remote Control	fzl/rc	Note: At least one Setup Remote Control will be
	User Remote Control	frc/user	required for setting up your ZoneLite/s
	15 15 metres 20 20 metres 30 30 metres 40 40 metres 50 50 metres Link lead (4-core) Switch drop lead (4-core)	r low n free	Note: All leads and adaptors operate at PELV (Protected extra low voltage)
	Global switch drop lead (6-core) fnw	(White cable)	provide local switch control Use to connect wall switches to the ZoneLite to
	Network lead (6-core) fnl	te cable)	provide global switch control. Use to link between ZoneLites to provide common control from a Global Switch Input, or to connect a series of ZoneLites via a Corridor Hold Unit to hold escape routes illuminated.
	'Y' adaptors (4-core)	fsy/a	For two connections into one - for use with 4-core Link leads or Switch drop leads only.
	Network 'Y' adaptors (6-core)	fny/a	For two connections into one - for use with 6-core Network leads or Global switch drop leads only.

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.

Technical



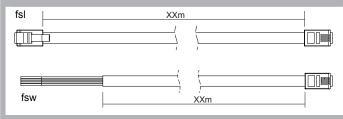
Rating

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 chan	nel):
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.

<u>Specification</u>		
Connectors:	4P4C modular jack, RJ11 style	
Conductor:	Stranded Copper (PVC variant) Stranded Tinned Copper (LSHF varian 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 Resistan	nce @ 20°C: > 500MΩM	
Conductor DC Resistance @ 20°C: < 17.01Ω/100M		
Rated Temperature:	70°C	
Rated Voltage:	500V	

flex7 ZoneLite Occupancy Sensor Heads Max. 7.42m **Detection Zone** 64 discreet detection zones are acquired by the PIR detector. An object with a higher than Мах background temperature will be detected if it moves between any two zones. 2 5 3 4m Detection Zone View X-X View Y-Y 5.0m 2.5 2 5m 5.0m 5.0m 2 5n 2 5m 5.0m Suitable for snapping into a Ø 32mm cutout Ø40.0 13.70 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

flex7 Networking Leads

fnl	XXm	
fnw	, , , , , , , , , , , , , , , , , , ,	

Lengths

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

	Specification	
	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.

Light up..

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



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