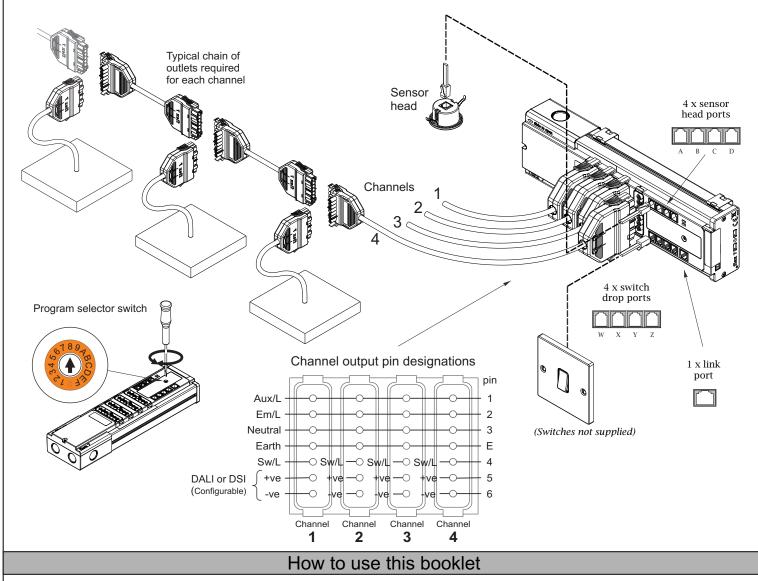
ZoneLite Type G configurations

The ZoneLite **Type G** is a 4 channel lighting control unit designed specifically for general office applications. There are 14 individual pre-programmed solutions to choose covering virtually any requirement. Simply select the desired program and follow its specific installation instructions.



- **STEP 1** Use the quick selection guide on pages 2 & 3 to choose the lighting layout that best suits your requirements. Your choice will direct you to a more detailed overview.
- **STEP 2** Review the detailed overview to ensure the chosen lighting layout fully meets your needs. If not other operational variations may exist within that layout. Check that you have all the parts necessary to complete the installation.
- **STEP 3** Fix the ZoneLite Unit in its final position and make the supply connections as per the instructions on page 36
- **STEP 4** Return to the detailed overview pages of your chosen lighting layout and plug in all luminaires, sensor heads and switch drops as shown. Now is a good time to select the appropriate position on the program selector switch.
- **STEP 5** If ZoneLite Units are required to share information with one another i.e. *corridor hold*, or if remote master switch inputs such as *Emergency test*, *Last man out*, *All lights on* are required then refer to page 34 & 35
- **<u>STEP 6</u>** Power up the ZoneLite and test that the lighting is operating broadly as expected.
- **STEP 7** If there is any daylight linking or if any other changes are required to the operational parameters then refer to the separate *setting up* leaflet 22/069. (An **fzl/rc** ZoneLite set up remote is required for this purpose)
- **STEP 8** Your installation should now be complete if you are encountering any problems please refer to the trouble shooting guide on the back page.



3

Config. 2

See pages 6 & 7

Absence detection - Any luminaires left on in the space just vacated will switch off after a time-out period (default 20min).

Wall switch - Each switch operates all the luminaires bound within its same colour dotted line. Typically - On, Off, Dim up/down (but in some cases On, Off only)

Window

2

2

2

Channel - Represents the channel controlling the luminaire.

Dimmable Luminaire - If 'D' is not present then denotes Non dimmable luminaire

Shading represents brightness (degree of which represents daylight linking in action)

3

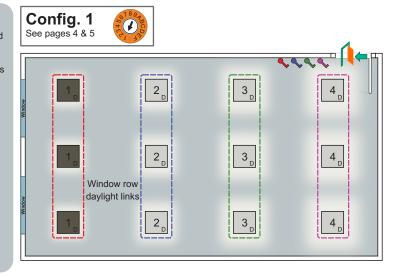
3

3 _

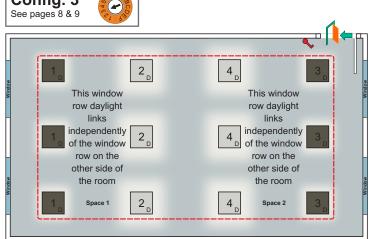
4

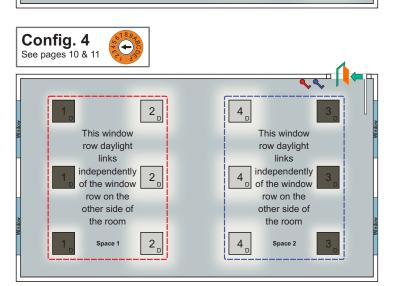
4 _D

4





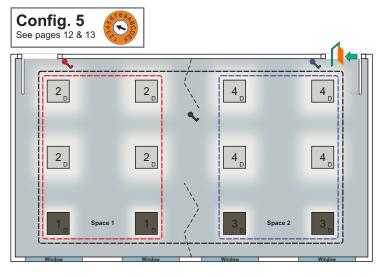


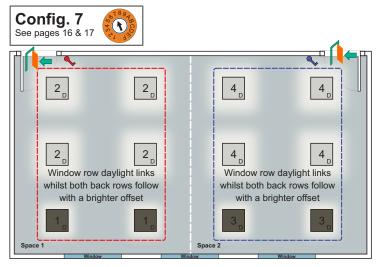


Window row daylight links whilst each subsequent row has

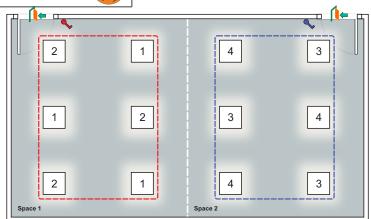
a progressively brighter offset





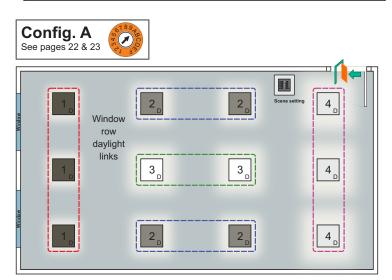


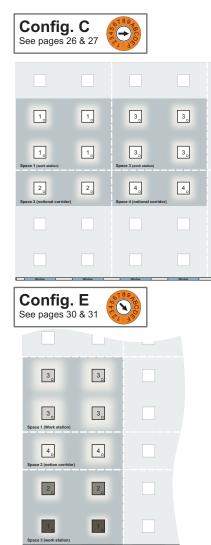




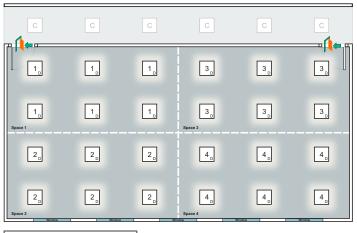


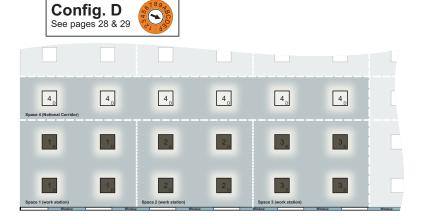












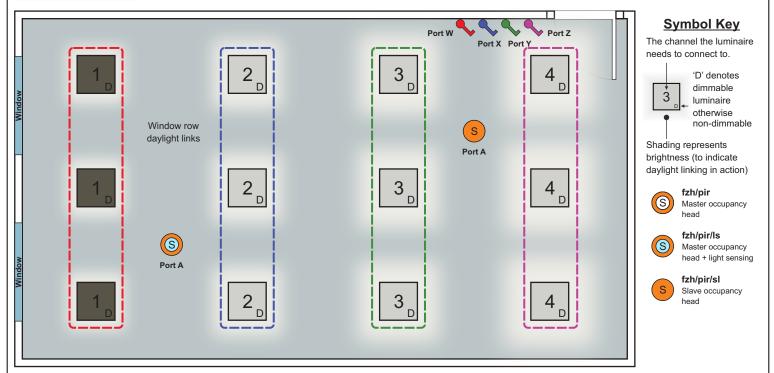


Note: Configuration F is reserved for user specific solutions that when not in use may be replaced by the default configuration below.

Configuration 1 - detailed overview

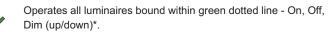


The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Operation [default]

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





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

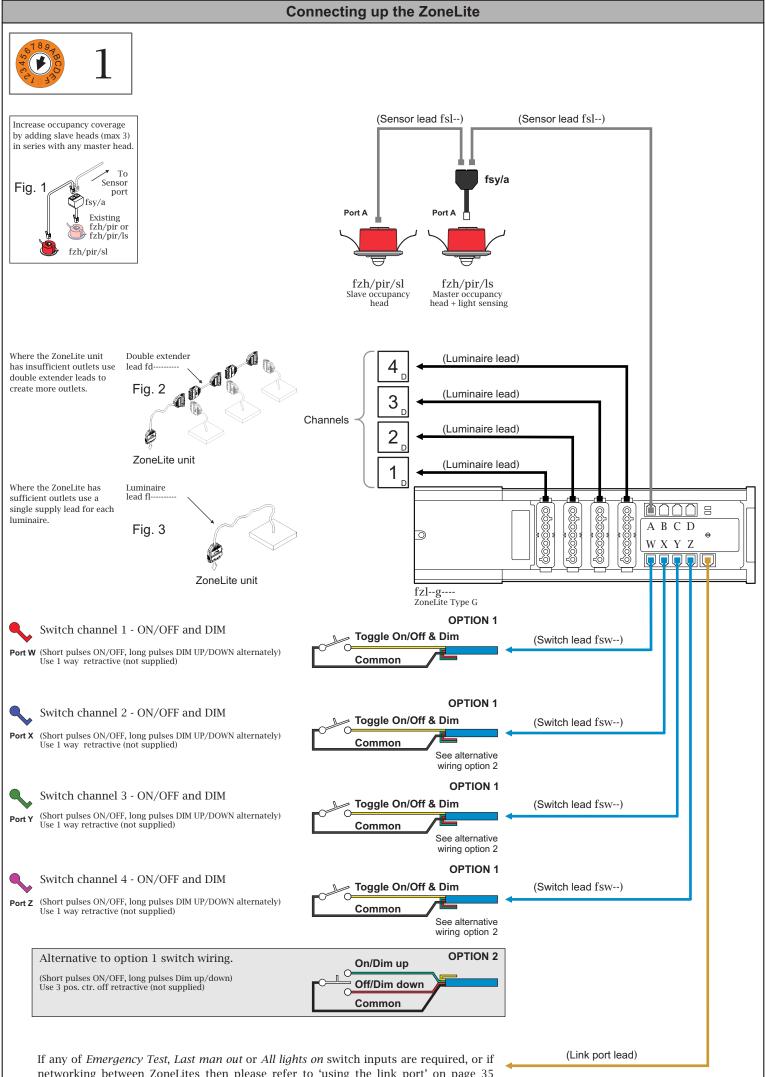


Daylight linking - The window row will daylight link according to the natural light level detected.

On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

* Manually dimming luminaires via a switch temporarily disables daylight linking (until next switch On initiation). If not desired manual dimming can be disabled at set up – *Setting up* leaflet 22/069

Table 1	Other available operational variations	Action
Daylight linkin	g not required anywhere.	Fit motion only sensor head fzh/pir instead of fzh/pir/ls
There are mo	re luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same typ room.	e of switch operation is required at more than one point in the	Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.
There is insuft 5.66m x 7.42r	icient occupancy coverage for the space. (range is typically n per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
	ow is too long to rely on one light level reading to be reliable. it ampled at both ends.	Add a special fzh/ls (light sensing only head) to port B. This will work with the existing fzh/pir/ls to average the light levels at both points.
	not only switch off automatically when the room is vacated but rn on automatically on entry.	Enable presence detection - <i>Setting up</i> leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming mixture of bot	protocol of the luminaires is DSI and not DALI (or there is a h).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (an	d others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.
This room (an remote from the termination of termi	d others?) require a 'last man out' or 'all lights on' switch nis area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other softwar	e adjustable parameters not mentioned so far.	Various software parameters such as Light level, Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069

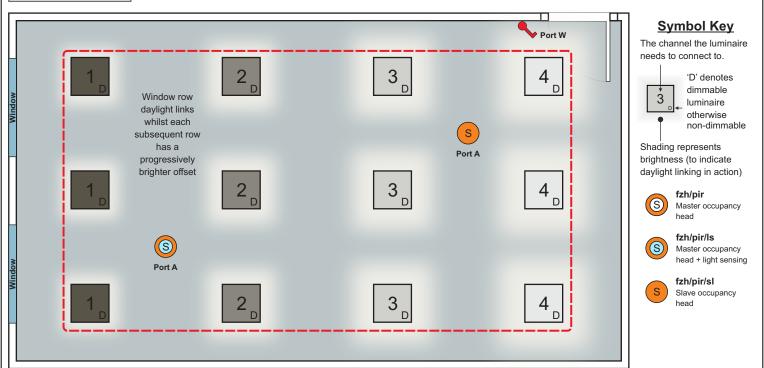


networking between ZoneLites then please refer to 'using the link port' on page 35



Configuration 2 - detailed overview

The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Operation [default]

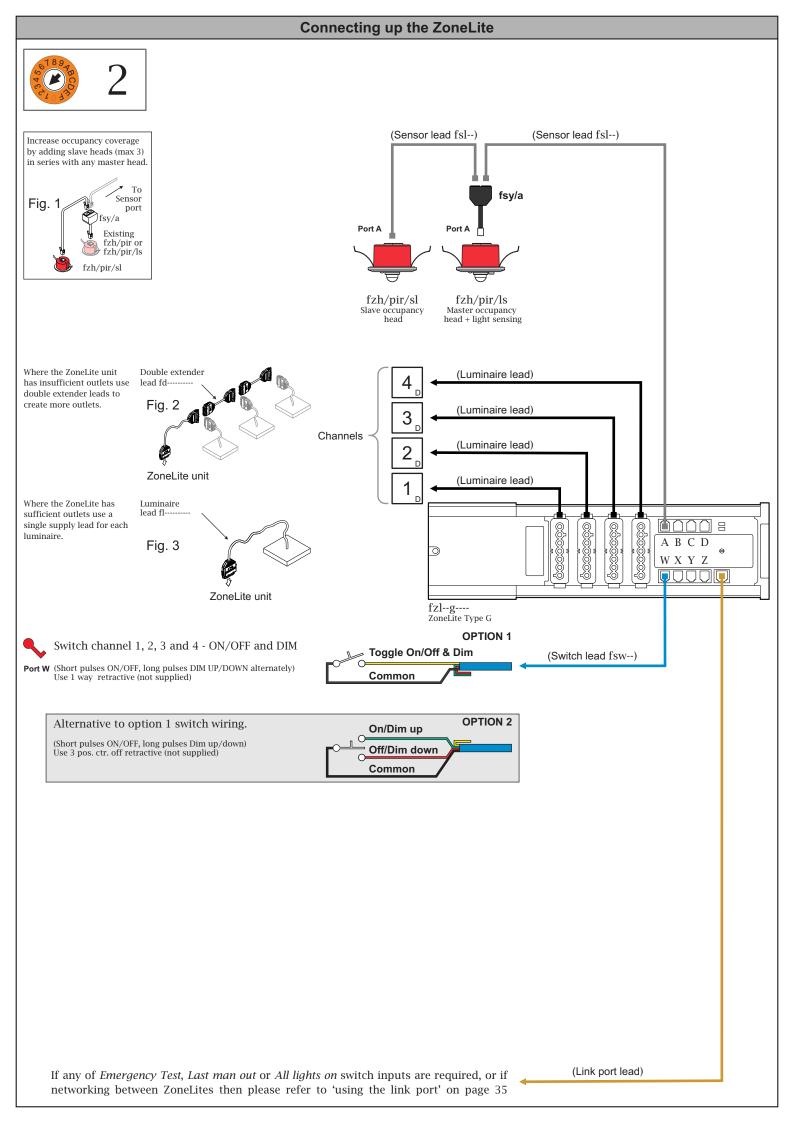
Operates all luminaires bound within red dotted line - On, Off, Dim (up/down)*.

4 stage offset daylight linking - Referencing from the window row, back rows will have a brighter offset. (offset value is adjustable)

On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

 * Manually dimming luminaires via a switch temporarily disables daylight linking (until next switch On initiation). If not desired manual dimming can be disabled at set up – Setting up leaflet 22/069

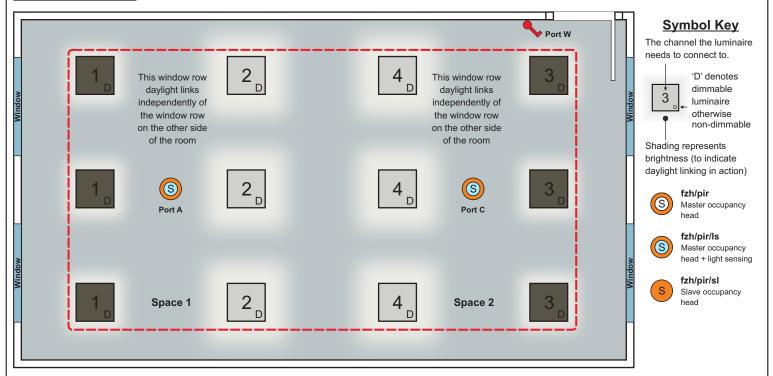
Table 1 Other available operational variations	Action
Daylight linking not required anywhere.	Fit motion only sensor head fzh/pir instead of fzh/pir/ls
There are more luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same type of switch operation is required at more than one point in the room.	Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.
There is insufficient occupancy coverage for the space. (range is typically 5.66m x 7.42m per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
The window row is too long to rely on one light level reading to be reliable. it needs to be sampled at both ends.	Add a special fzh/ls (light sensing only head) to port B. This will work with the existing fzh/pir/ls to average the light levels at both points.
Lights should not only switch off automatically when the room is vacated but should also turn on automatically on entry.	Enable presence detection - Setting up leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming protocol of the luminaires is DSI and not DALI (or there is a mixture of both).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (and others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.
This room (and others?) require a 'last man out' or 'all lights on' switch remote from this area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software adjustable parameters not mentioned so far.	Various software parameters such as Light level, Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069





Configuration 3 - detailed overview The scenario below and connection instructions opposite are intended to show a typical installation for this

The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Operation of space [default]

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

2 stage offset daylight linking - Both window rows daylight link independently of one another whilst there respective inner rows will have brighter offsets.

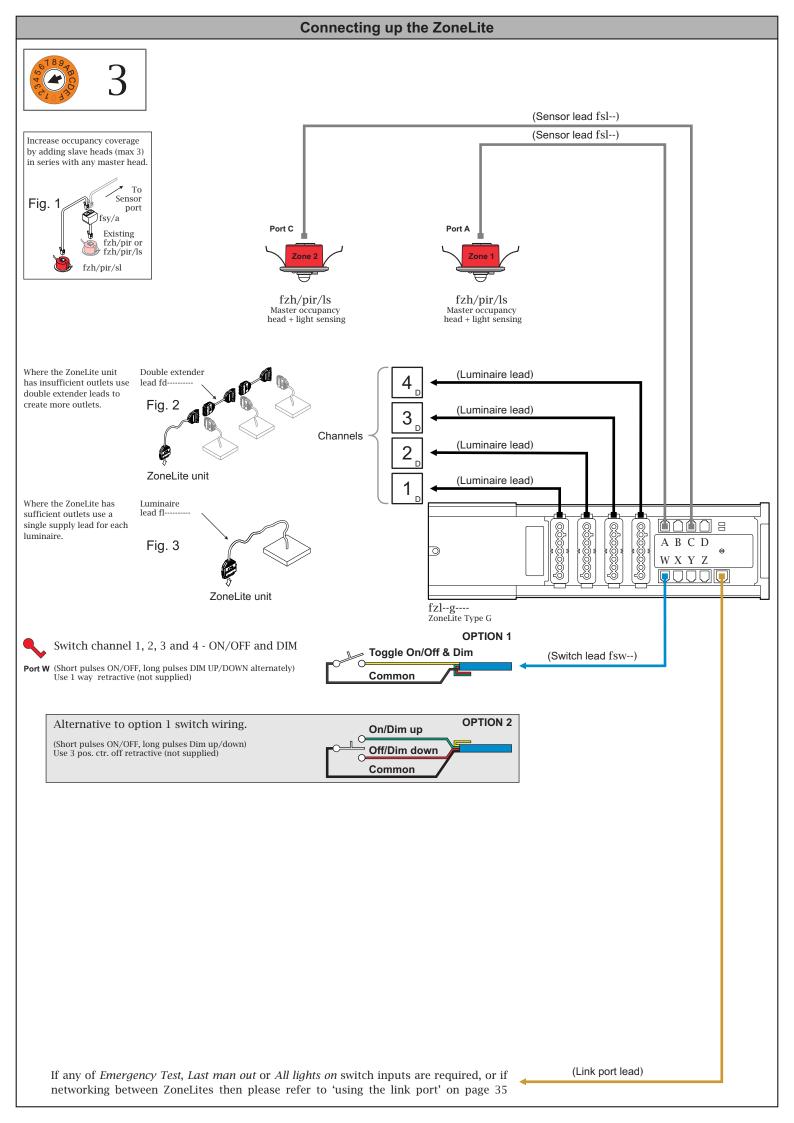


On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min)**

 ** Please note time-out adjustments must be made on both sensor heads A & C – Setting up leaflet 22/069

* Manually dimming luminaires via a switch temporarily disables daylight linking (until next switch On initiation). If not desired manual dimming can be disabled at set up – *Setting up* leaflet 22/069

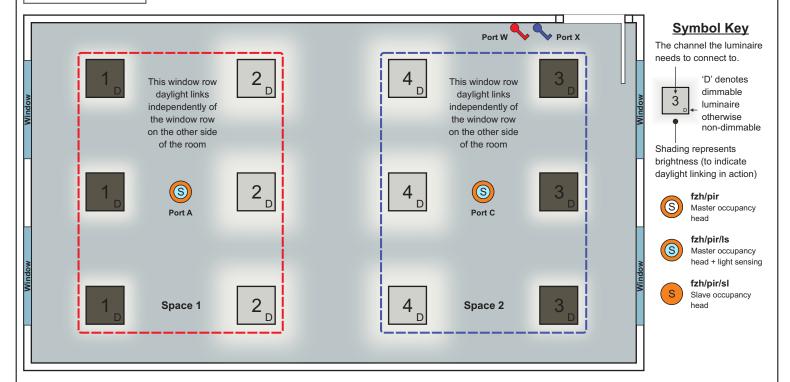
Table 1	Other available operational variations	Action
Daylight linkin	g is not required in a space where it is shown.	Change the head to occupancy only fzh/pir (for no daylight linking)
There are mor	e luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same type room.	e of switch operation is required at more than one point in the	Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.
There is insuff 5.66m x 7.42n	icient occupancy coverage for the space. (range is typically n per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
	ow is too long to rely on one light level reading to be reliable. it ampled at both ends.	Add a special fzh/ls (light sensing only head) to port B. This will work with the existing fzh/pir/ls to average the light levels at both points.
	not only switch off automatically when the room is vacated but rn on automatically on entry.	Enable presence detection - <i>Setting up</i> leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming mixture of bot	protocol of the luminaires is DSI and not DALI (or there is a h).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (an	d others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.
This room (an remote from the termination of termi	d others?) require a 'last man out' or 'all lights on' switch nis area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software	e adjustable parameters not mentioned so far.	Various software parameters such as Light level, Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069





Configuration 4 - detailed overview

The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Operation of space 1 [default]

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



2 stage offset daylight linking - Referencing from the window row, back row will have a brighter offset. (offset value is adjustable)



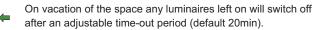
On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

Operation of space 2 [default]

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

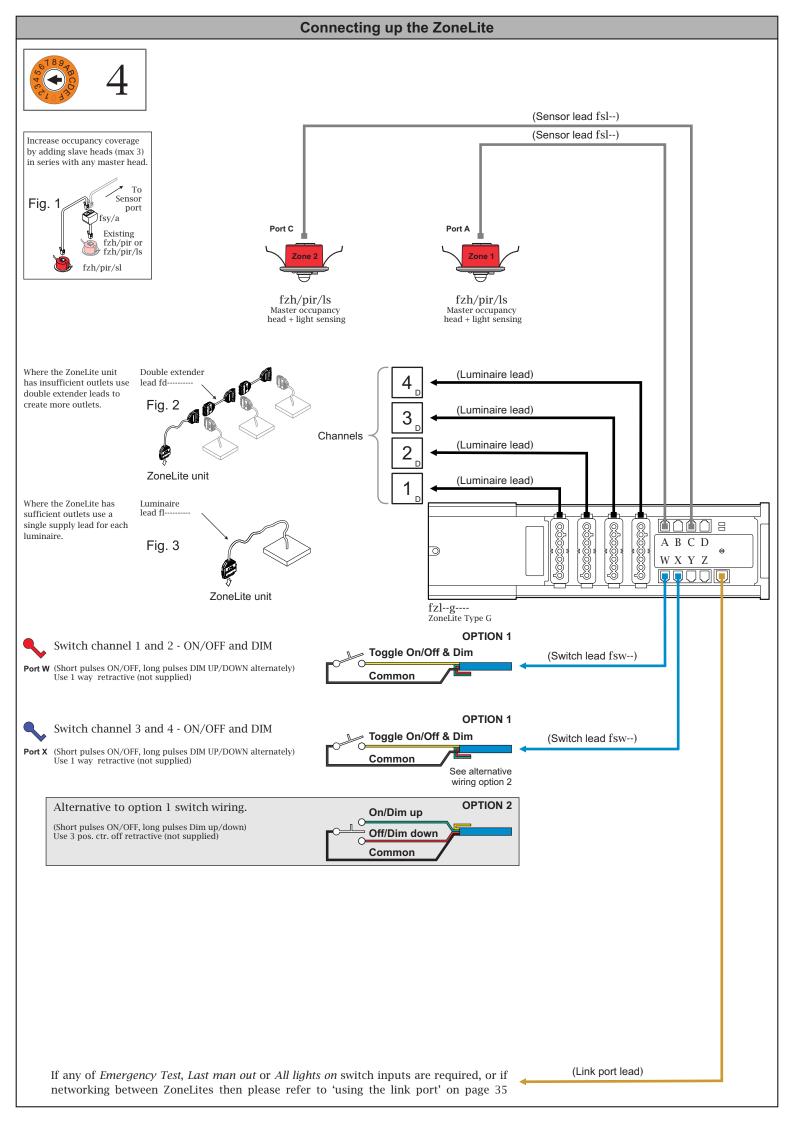


2 stage offset daylight linking - Referencing from the window row, back row will have a brighter offset. (offset value is adjustable)



* Manually dimming luminaires via a switch temporarily disables daylight linking (until next switch On initiation). If not desired manual dimming can be disabled at set up – *Setting up* leaflet 22/069

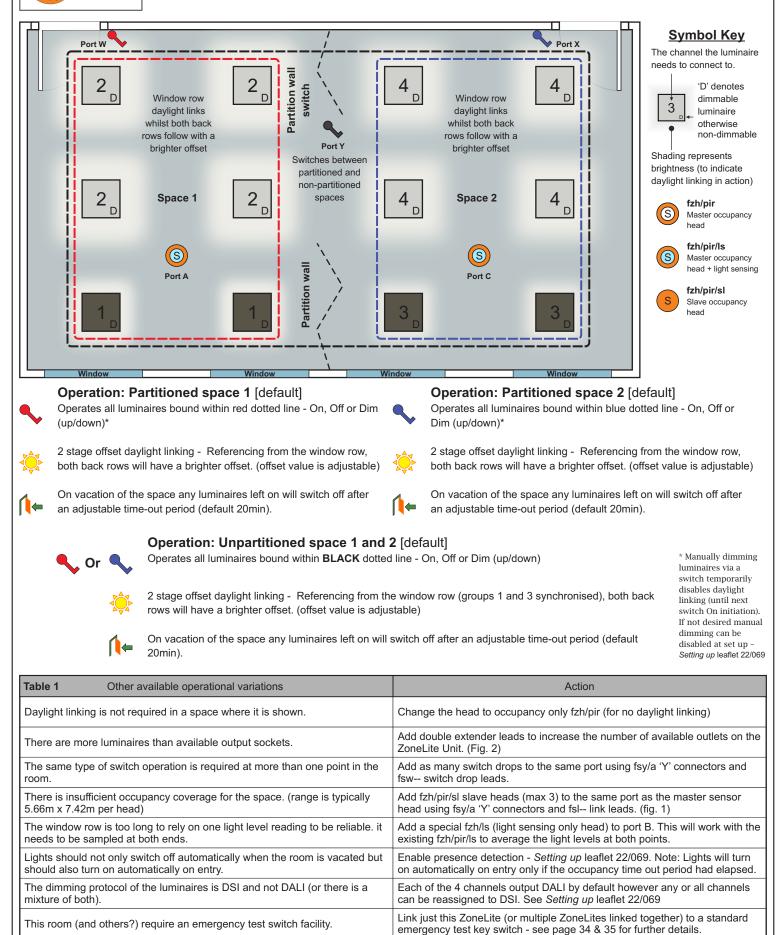
Table 1	Other available operational variations	Action
Daylight linki	ng is not required in a space where it is shown.	Change the head to occupancy only fzh/pir (for no daylight linking)
There are mo	ore luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same typ room.	pe of switch operation is required at more than one point in the	Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.
There is insu 5.66m x 7.42	fficient occupancy coverage for the space. (range is typically 2m per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
	row is too long to rely on one light level reading to be reliable. it sampled at both ends.	Add a special fzh/ls (light sensing only head) to port B. This will work with the existing fzh/pir/ls to average the light levels at both points.
	I not only switch off automatically when the room is vacated but urn on automatically on entry.	Enable presence detection - Setting up leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming mixture of bo	protocol of the luminaires is DSI and not DALI (or there is a th).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (a	nd others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.
This room (a remote from	nd others?) require a 'last man out' or 'all lights on' switch this area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other softwa	re adjustable parameters not mentioned so far.	Various software parameters such as Light level, Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069





Configuration 5 - detailed overview

The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Link just this ZoneLite (or multiple ZoneLites linked together) to a remote

be adjusted using a setup remote control. See Setting up leaflet 22/069

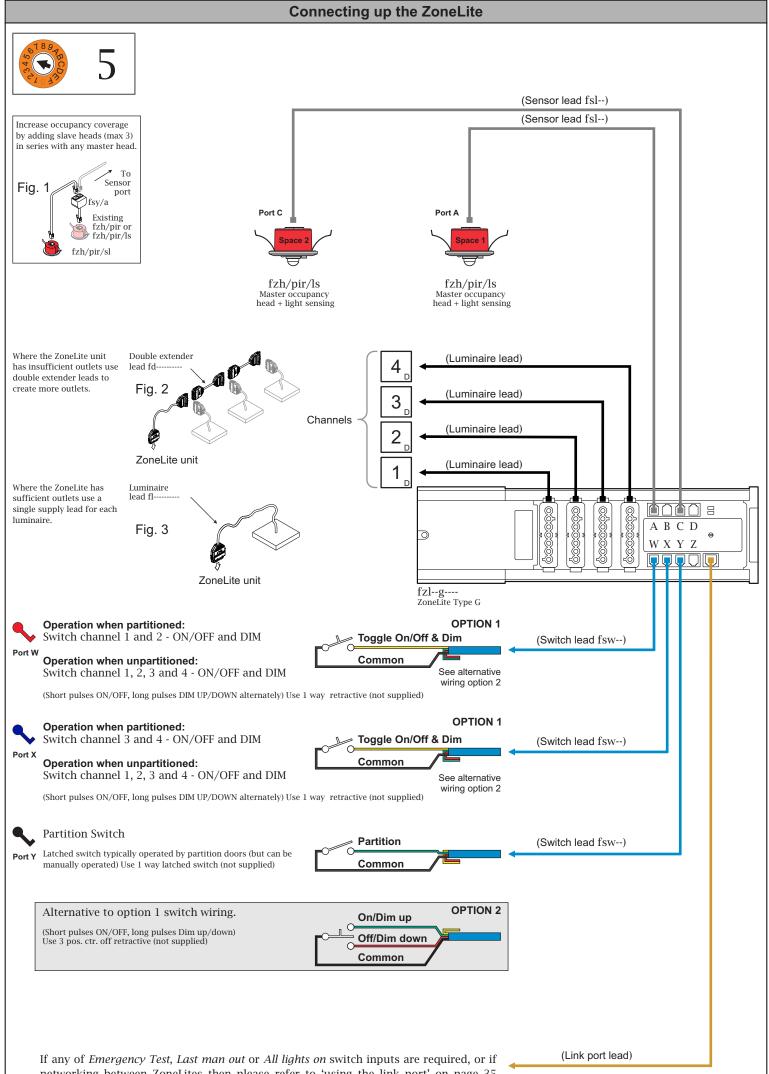
Various software parameters such as Light level, Time out, and more can all

switch/s - see page 34 & 35 for further details.

This room (and others?) require a 'last man out' or 'all lights on' switch

Other software adjustable parameters not mentioned so far.

remote from this area.

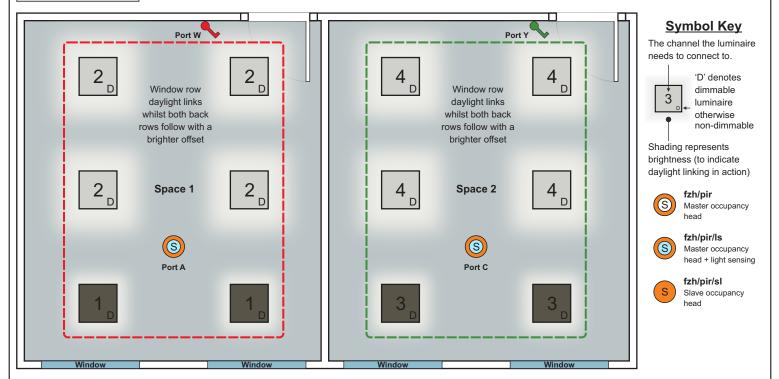


networking between ZoneLites then please refer to 'using the link port' on page 35

Configuration 6 - detailed overview



The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Operation of space 1 [default]

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

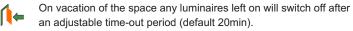
2 stage offset daylight linking - Referencing from the window row, both back rows will have a brighter offset. (offset value is adjustable)

On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

Operation of space 2 [default]

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

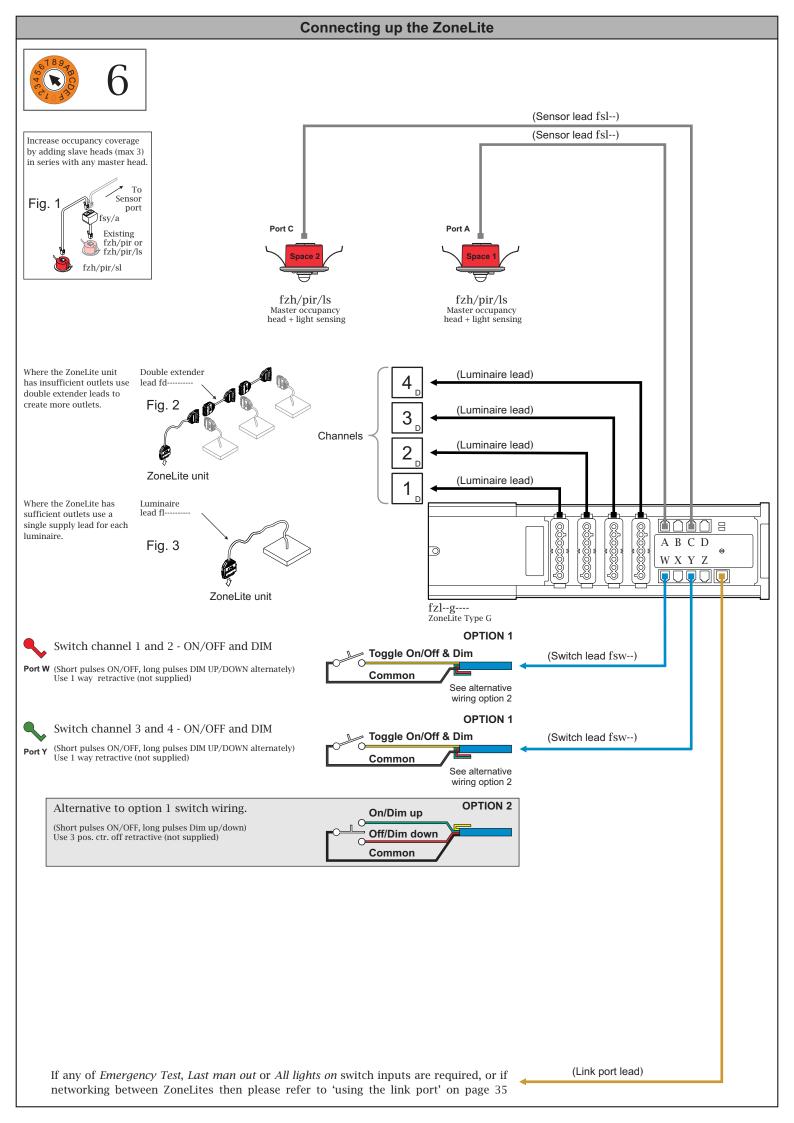
2 stage offset daylight linking - Referencing from the window row, both back rows will have a brighter offset. (offset value is adjustable)



* Manually dimming luminaires via a switch temporarily disables daylight linking (until next switch On initiation). If not desired manual dimming can be disabled at set up - *Setting up* leaflet 22/069

Table 1	Other available operational variations	Action
Daylight linking	g is not required in a space where it is shown.	Change the head to occupancy only fzh/pir (for no daylight linking)
There are more	e luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same type room.	e of switch operation is required at more than one point in the	Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.
There is insuffi 5.66m x 7.42m	cient occupancy coverage for the space. (range is typically per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
	w is too long to rely on one light level reading to be reliable. it impled at both ends.	Add a special fzh/ls (light sensing only head) to port B. This will work with the existing fzh/pir/ls to average the light levels at both points.
	not only switch off automatically when the room is vacated but n on automatically on entry.	Enable presence detection - <i>Setting up</i> leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming p mixture of both	protocol of the luminaires is DSI and not DALI (or there is a i).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (and	d others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.
This room (and remote from th	d others?) require a 'last man out' or 'all lights on' switch is area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software	adjustable parameters not mentioned so far.	Various software parameters such as Light level, Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069

14



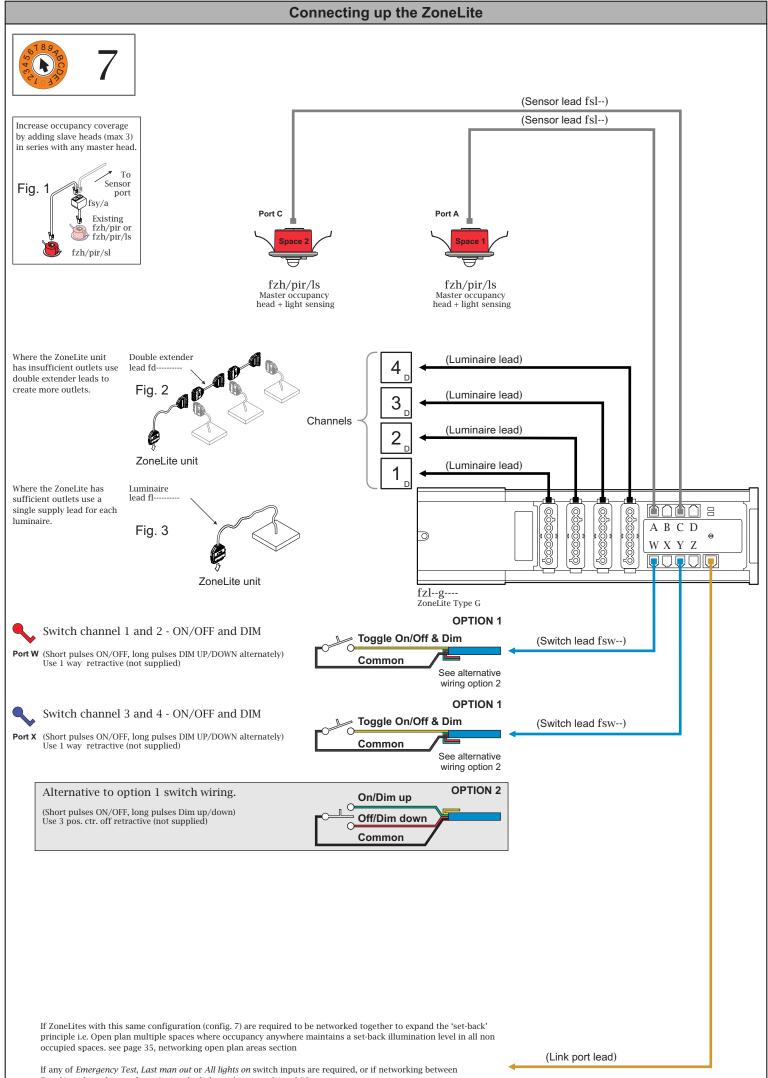


Configuration 7 - detailed overview



The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.

	Port W 2 2 2 1 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0		-	Shared occupancy Window		Vindow row daylight links whilst both back rows follow with a brighter offset Space 2 (S) Port C Vindow Operation of s On entry of this sp	4 4 3 pace 2 [defau	Signification Signification Statistication <
∫ ⇒	maximum. On entry of <u>only</u> t switch to minimur	he adjacent spac m (adjustable).	ce channel 1 ar	d 2 luminaires	() ⇒	maximum.	e adjacent space o	channel 3 and 4 luminaires
•	Operates channe (Those bound wit			e - Off, On or Dim'		Operates channel (Those bound with		s in this space - Off, On or Dim*)
	2 stage offset day window row daylig detected, whilst th (adjustable)	ght links accordi	ng to the natura	-	°	window row daylig	ht links according	ded this space is occupied, the to the natural light level adopt a brighter offset
[+	1 and 2 luminaire	s revert to minim ace <u>and</u> adjacent	um (adjustable	cent space, channe). ne-outs) channel 1		3 and 4 luminaires	revert to minimum e <u>and</u> adjacent sp	but <u>not</u> adjacent space, channel n (adjustable). ace (after time-outs) channel 3
* Manua 22/069	lly dimming luminaires	s via a switch tempo	rarily disables day	light linking (until nex	t switch On	initiation). If not desired	manual dimming can	be disabled at set up - <i>Setting up</i> leaflet
	nelites with the same of mination level in all no					ck' principle i.e. Open pla	an multiple spaces wh	ere occupancy anywhere maintains a set-
Table	1 Other a	available operatio	onal variations				Action	
Daylig	ht linking is not red	quired in a space	where it is sho	own.				(for no daylight linking)
	There are more luminaires than available output sockets.					Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)		
room.	The same type of switch operation is required at more than one point in the room.					Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.		
5.66m	There is insufficient occupancy coverage for the space. (range is typically 5.66m x 7.42m per head)					Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)		
	The window row is too long to rely on one light level reading to be reliable. it needs to be sampled at both ends.					a special fzh/ls (light ng fzh/pir/ls to avera) to port B. This will work with the at both points.
	imming protocol of re of both).	the luminaires is	DSI and not D	ALI (or there is a		of the 4 channels ou e reassigned to DSI		ult however any or all channels aflet 22/069
This re	oom (and others?)	require an emer	gency test swit	ch facility.	Link	ust this ZoneLite (or gency test key switc	multiple ZoneLites h - see page 34 &	s linked together) to a standard 35 for further details.
	This room (and others?) require a 'last man out' or 'all lights on' switch remote from this area.					ust this ZoneLite (or h/s - see page 34 &		s linked together) to a remote ls.
Other	software adjustabl	le parameters no	t mentioned so	far.				evel, Time out, and more can all ee <i>Setting up</i> leaflet 22/069



ZoneLites then please refer to 'using the link port' on page 34 and 35

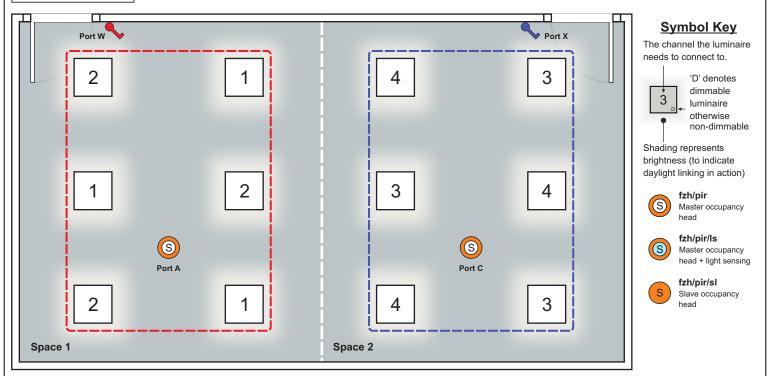
18

[| ←

8

Configuration 8 - detailed overview

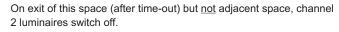
The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Operation of space 1 [default]

On entry of this space channel 1 and 2 luminaires switch on. On entry of <u>only</u> the adjacent space channel 1 luminaires switch on.

Operates channel 1 and 2 luminaires in this space - Off, On (Those bound within red dotted line)



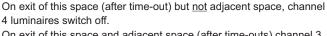
On exit of this space <u>and</u> adjacent space (after time-outs) channel 1 and 2 luminaires switch off.

Operation of space 2 [default]

On entry of this space channel 3 and 4 luminaires switch on. On entry of <u>only</u> the adjacent space channel 3 luminaires switch on.



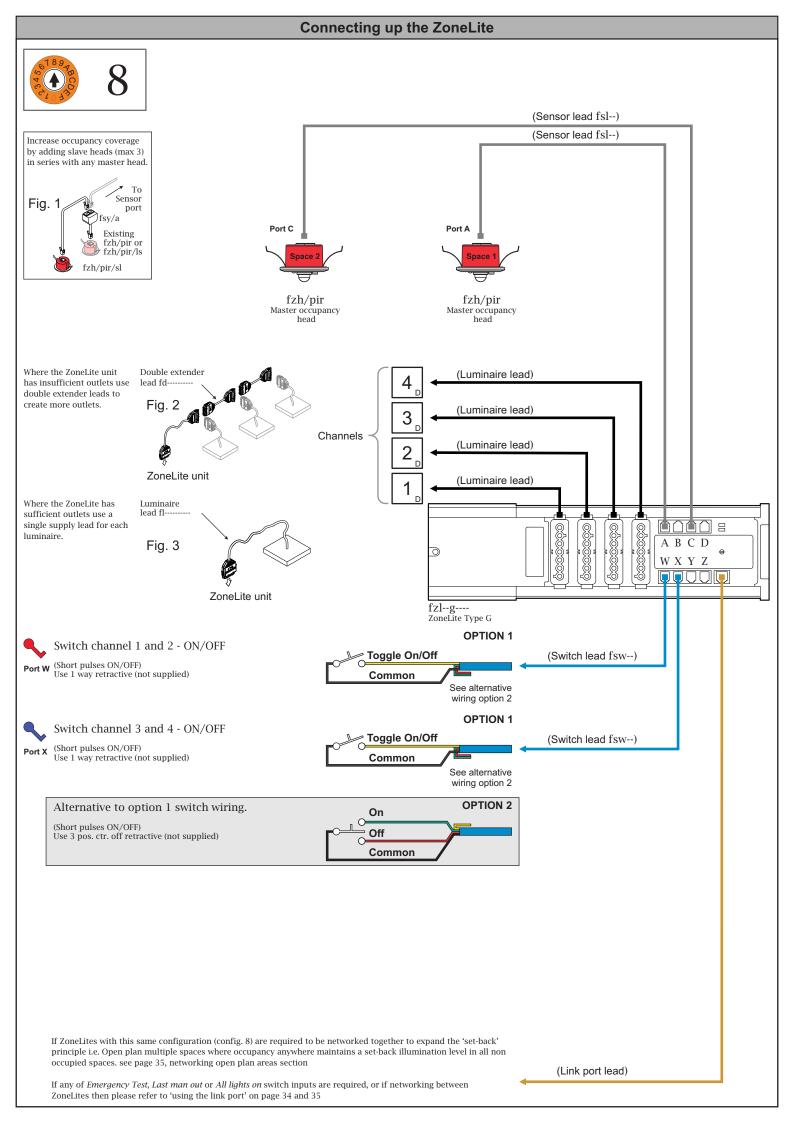
Operates channel 3 and 4 luminaires in this space - Off, On (Those bound within blue dotted line)



On exit of this space and adjacent space (after time-outs) channel 3 and 4 luminaires switch off.

Note: Zonelites with the same configuration (config 8) can be networked together to expand this 'set-back' principle i.e. Open plan multiple spaces where occupancy anywhere maintains a setback illumination level in all non occupied spaces. see page 35, networking open plan areas section

Table 1	Other available operational variations	Action
There are mo	re luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same typ room.	e of switch operation is required at more than one point in the	Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.
There is insuft 5.66m x 7.42r	ficient occupancy coverage for the space. (range is typically n per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
This room (an	d others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.
This room (an remote from tl	d others?) require a 'last man out' or 'all lights on' switch his area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software	e adjustable parameters not mentioned so far.	Various software parameters such as Light level, Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069



Configuration 9 - detailed overview



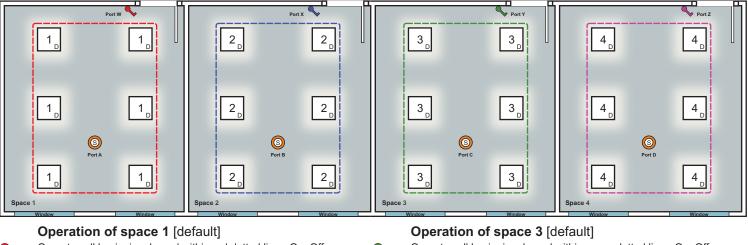
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The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



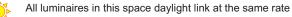
Operates all luminaires bound within red dotted line - On, Off or Dim (up/down)*

All luminaires in this space daylight link at the same rate

On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

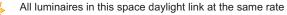
Operation of space 2 [default]

Operates all luminaires bound within blue dotted line - On, Off or $\mbox{Dim}\ (\mbox{up/down})^*$



On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

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





On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

Operation of space 4 [default] Operates all luminaires bound within pu

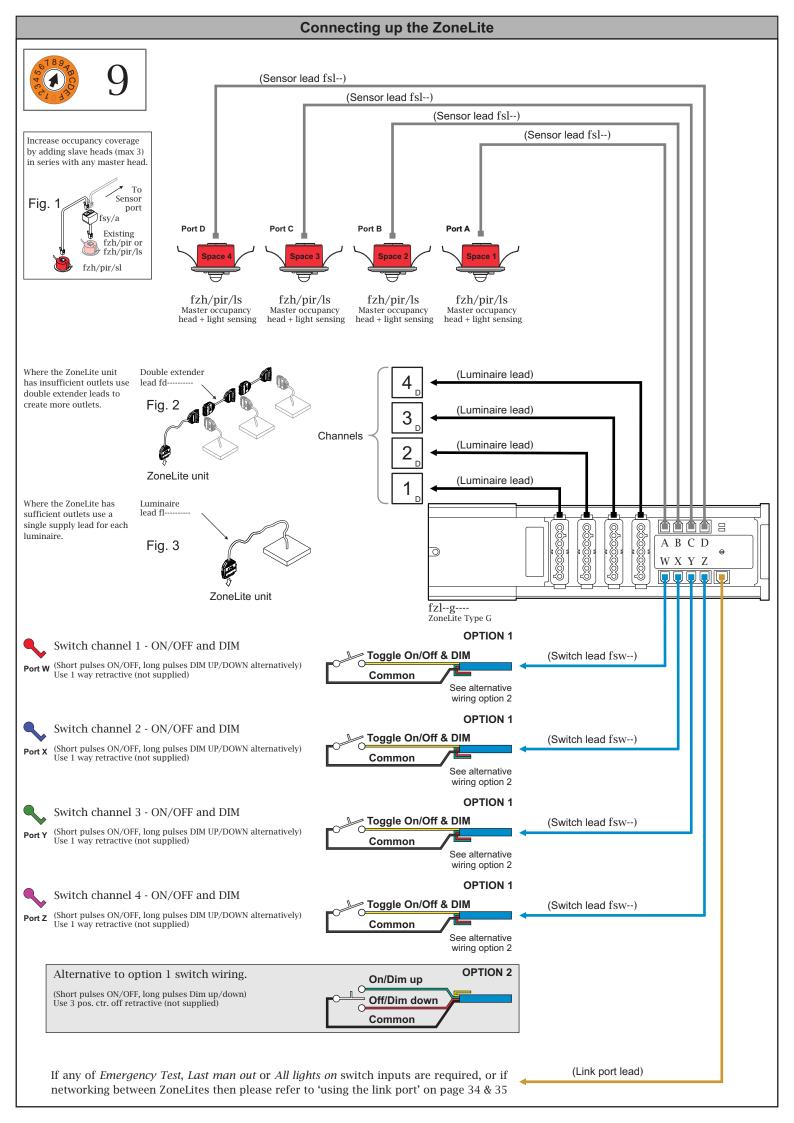


Operates all luminaires bound within purple dotted line - On, Off or Dim (up/down)*

All luminaires in this space daylight link at the same rate

On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

Table 1 Other available operational variations	Action
Daylight linking not required anywhere.	Fit motion only sensor head fzh/pir instead of fzh/pir/ls
There are more luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same type of switch operation is required at more than one point in the room.	Add as many switch drops to the same port using fsy/a 'Y' connectors and fsw switch drop leads.
There is insufficient occupancy coverage for the space. (range is typically 5.66m x 7.42m per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
Lights should not only switch off automatically when the room is vacated but should also turn on automatically on entry.	Enable presence detection - <i>Setting up</i> leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming protocol of the luminaires is DSI and not DALI (or there is a mixture of both).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (and others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
This room (and others?) require a 'last man out' or 'all lights on' switch remote from this area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software adjustable parameters not mentioned so far.	Various software parameters such as Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069

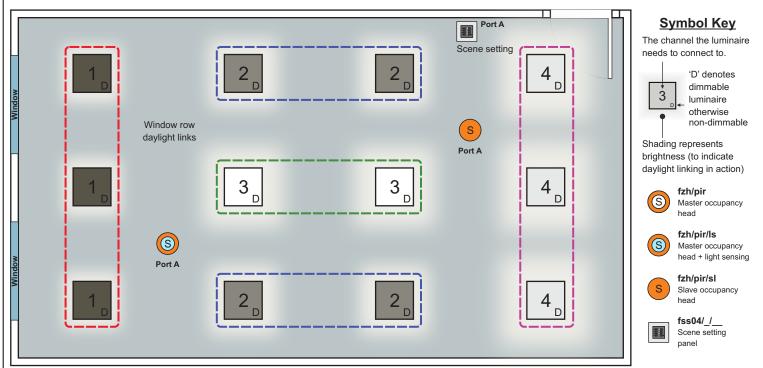




Configuration A - detailed overview



The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Scene Setting

Using the Flex Connectors scene setting panel(not supplied) with configuration 9 provides a scene setting solution that uniquely offers the user two standard modes of operation. Simply toggle between either mode at any time.

Operation [default]



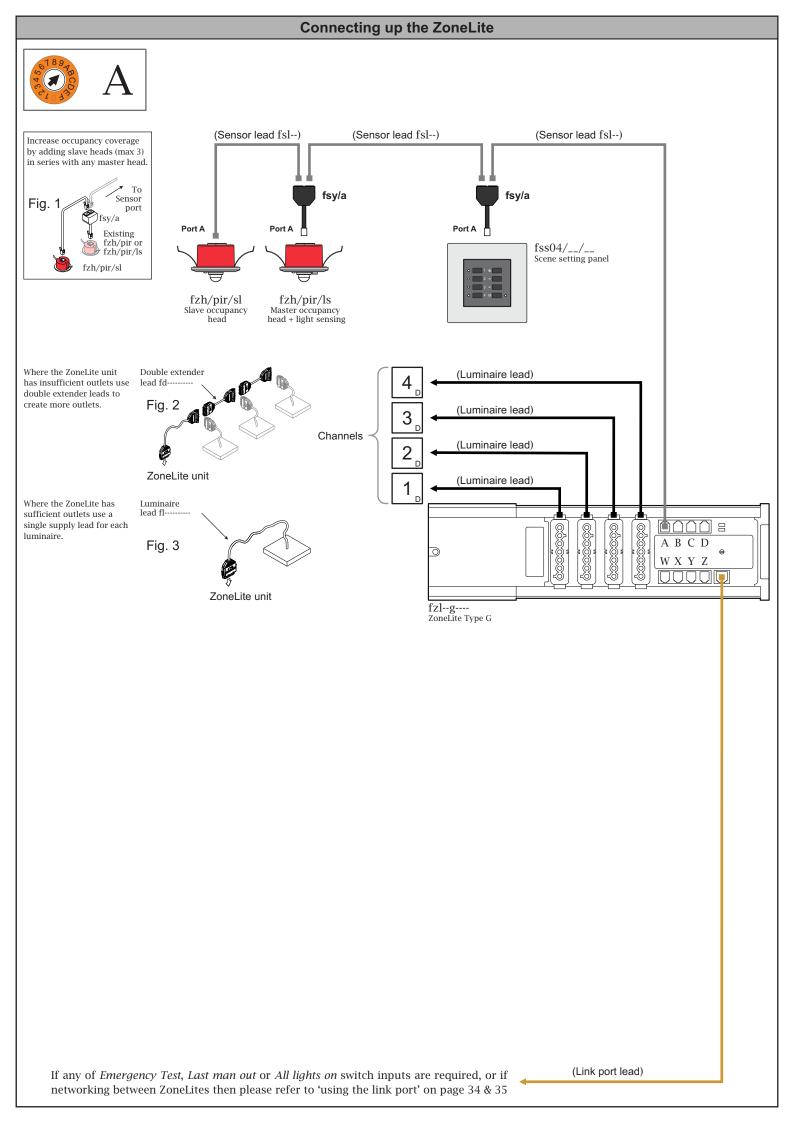
Operates all luminaires - On, Off, Dim (up/down) or recall/set up scenes 1 - 4 or toggle/dim channels 1 - 4.

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On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

Note: Please refer to FSS04 INSTRUCTION (leaflet number 22/094) for operational instructions on using the scene setting panel

Table 1	Other available operational variations	Action
Daylight linking	g not required anywhere.	Fit motion only sensor head fzh/pir instead of fzh/pir/ls
There are mor	e luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same type room.	e of switch operation is required at more than one point in the	With the exception of the <i>Mode Select</i> switch, additional switches can be added in parallel using fsy/a 'Y' connectors and fsw switch drop leads.
There is insuffi 5.66m x 7.42m	icient occupancy coverage for the space. (range is typically n per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
	not only switch off automatically when the room is vacated but rn on automatically on entry.	Enable presence detection - <i>Setting up</i> leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming p mixture of both	protocol of the luminaires is DSI and not DALI (or there is a n).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (and	d others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
This room (and remote from the	d others?) require a 'last man out' or 'all lights on' switch iis area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software	e adjustable parameters not mentioned so far.	Various software parameters such as Time out, and more can all be adjusted using a setup remote control. See <i>Setting up</i> leaflet 22/069



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Configuration B - detailed overview



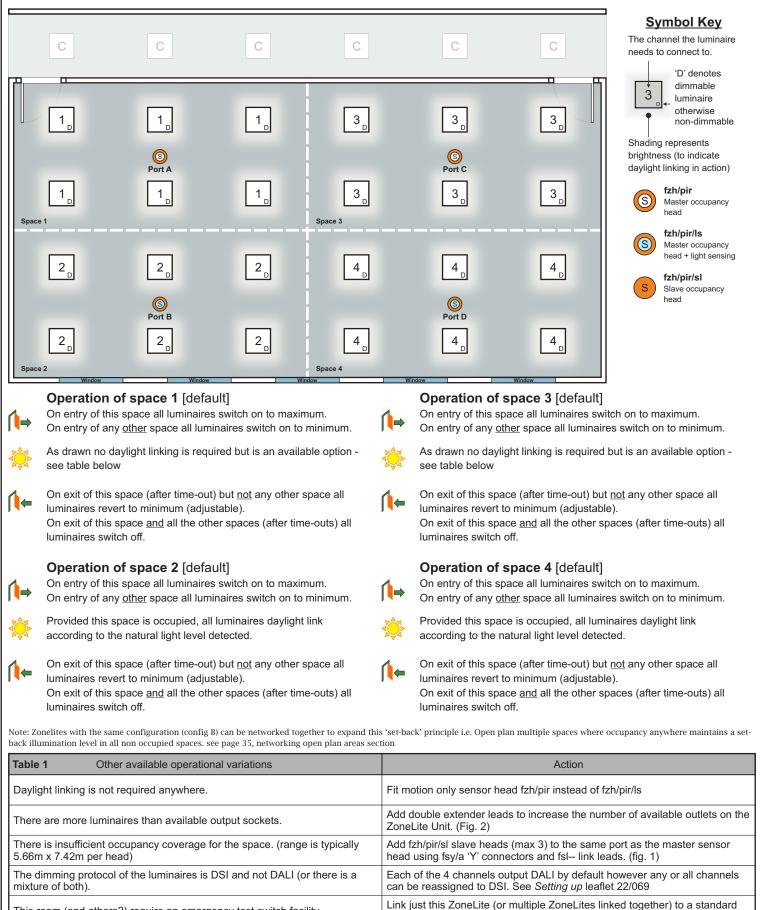
This room (and others?) require an emergency test switch facility.

Other software adjustable parameters not mentioned so far.

remote from this area.

This room (and others?) require a 'last man out' or 'all lights on' switch

The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



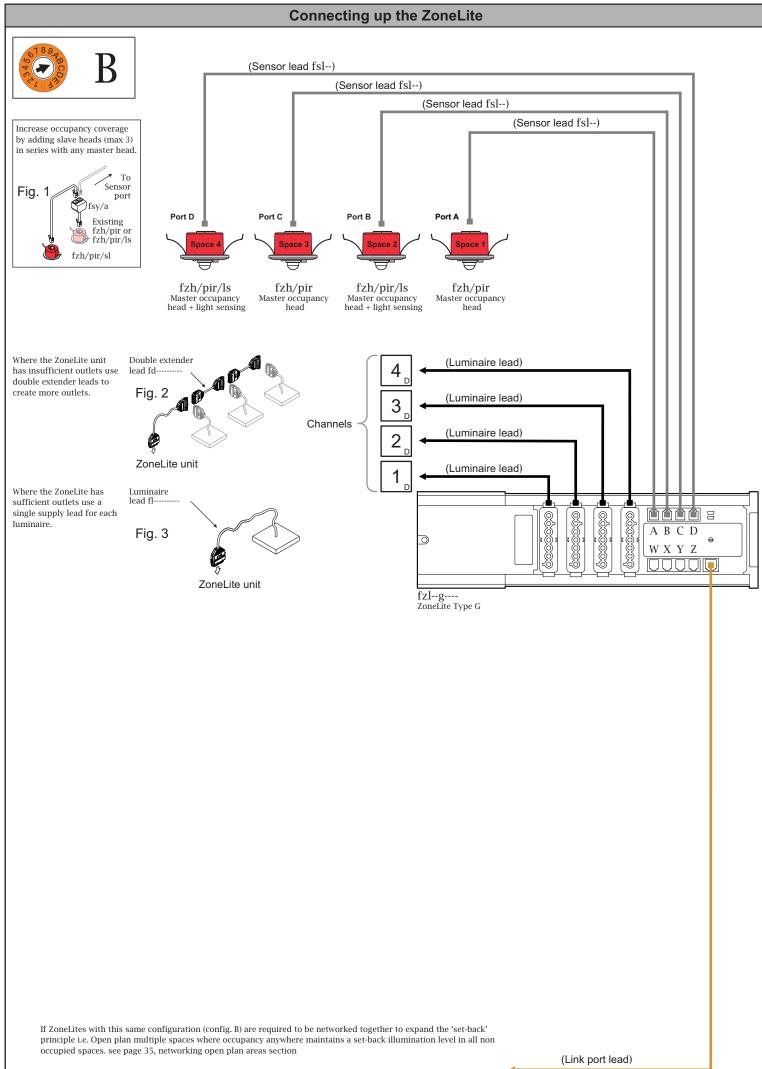
emergency test key switch - see page 34 & 35 for further details.

using a setup remote control. See Setting up leaflet 22/069

switch/s - see page 34 & 35 for further details.

Link just this ZoneLite (or multiple ZoneLites linked together) to a remote

Various software parameters such as Time out, and more can all be adjusted



If any of *Emergency Test, Last man out* or *All lights on* switch inputs are required, or if networking between ZoneLites then please refer to 'using the link port' on page 34 and 35

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Configuration C - detailed overview

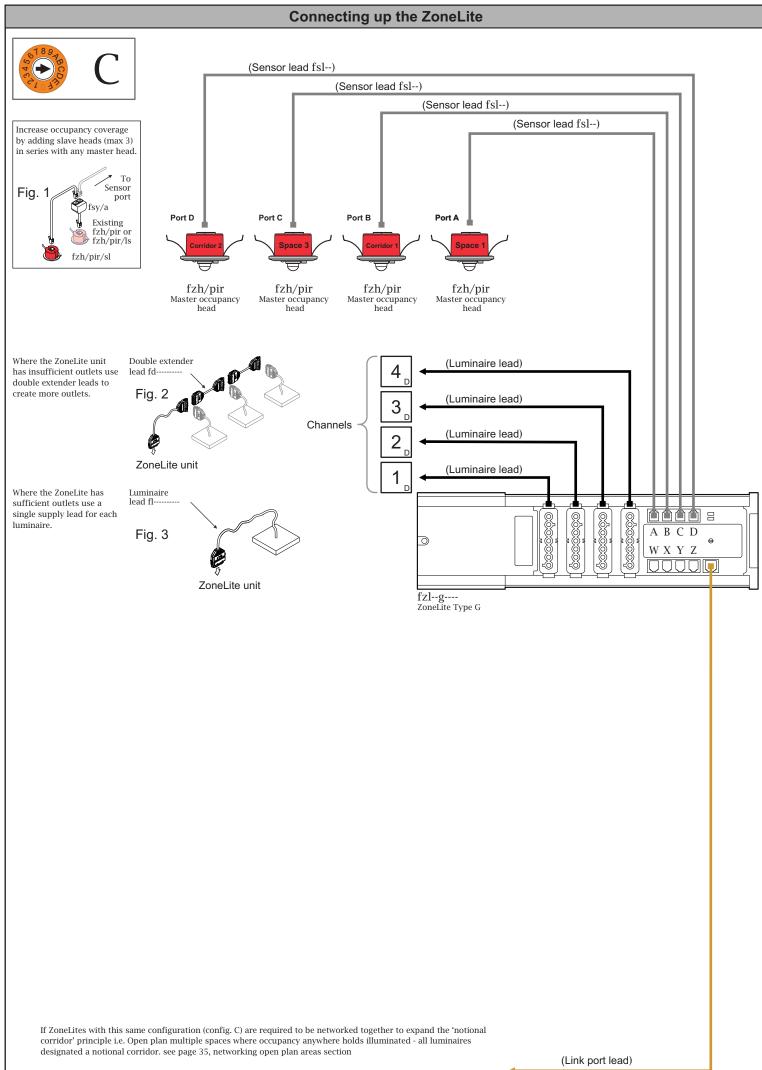


The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.

	1 (Work station)	S Port A Port B dor)	1 _p	3 _D 3 _D Space 3 (Work statio	S Port D	3, 3, 3, 4,		Sumport burget
	-			window ault] (Work sta switch on to maxin	,	Window	∫ →	Operation of space 3 [default] (Work station) On entry of this space luminaires switch on to maximum.
¢	As drawn ne see table be		ht linking is req	uired but is an av	ailable op	otion -		As drawn no daylight linking is required but is an available option - see table below
[+	On exit of this space (after time-out) luminaires switch off.						[+	On exit of this space (after time-out) luminaires switch off.
∫	Operation of space 2 [default] (Notional corridor) When unoccupied, occupancy in ANY other space switches luminaires to minimum (Set-back illumination). On specific entry of this notional corridor space the luminaires switch on to maximum.						∫	Operation of space 4 [default] (Notional corridor) When unoccupied, occupancy in ANY other space switches luminaires to minimum (Set-back illumination). On specific entry of this notional corridor space the luminaires switch on to maximum.
[+	On exit of this notional corridor (after time-out) luminaires revert to set-back illumination. Only when ALL other spaces are unoccupied will the luminaires switch off (after time-outs).						/ +	On exit of this notional corridor (after time-out) luminaires revert to set-back illumination. Only when ALL other spaces are unoccupied will the luminaires switch off (after time-outs).

Note: Zonelites with the same configuration (config C) can be networked together to expand this 'set-back' principle i.e. Open plan multiple spaces where occupancy anywhere maintains a setback illumination level in all non occupied spaces. see page 35, networking open plan areas section

Table 1	Other available operational variations	Action
	ng is not required in a space where it is shown OR is required in e it is not shown.	Change the head to occupancy only fzh/pir (for no daylight linking) or change the head to occupancy + light level fzh/pir/ls (for daylight linking)
There are mo	re luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
There is insuf 5.66m x 7.42i	fficient occupancy coverage for the space. (range is typically m per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)
The dimming mixture of bot	protocol of the luminaires is DSI and not DALI (or there is a th).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069
This room (ar	nd others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.
This room (ar remote from t	nd others?) require a 'last man out' or 'all lights on' switch his area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.

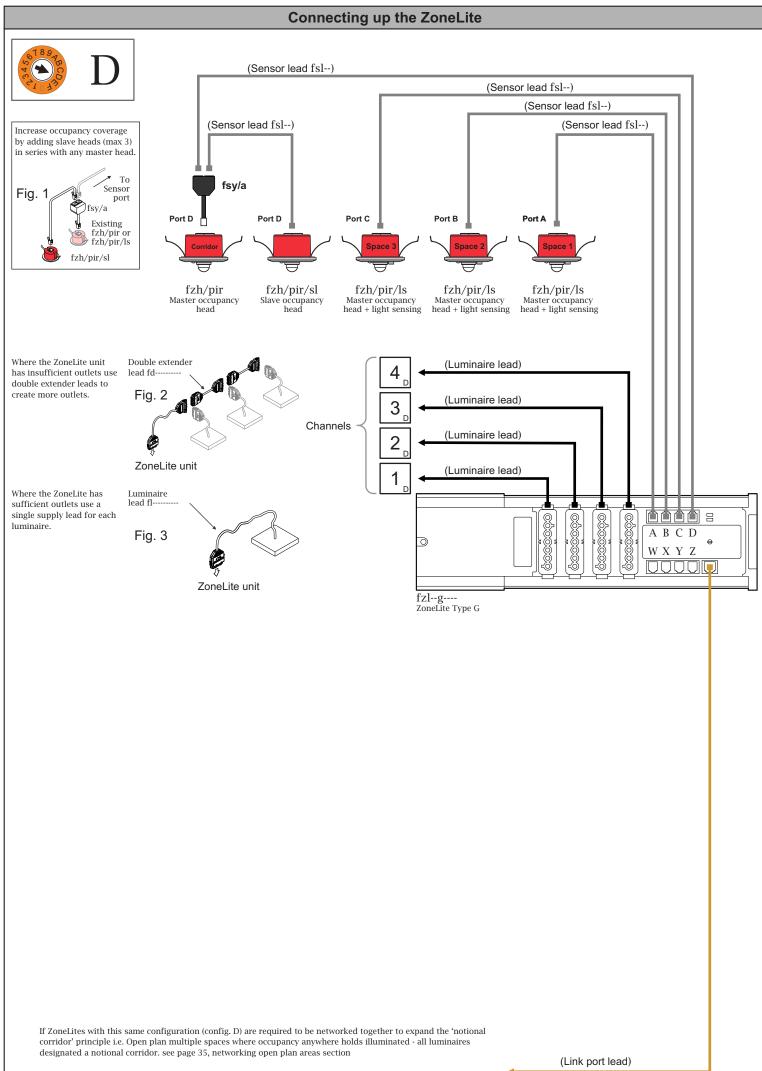


If any of *Emergency Test, Last man out* or *All lights on* switch inputs are required, or if networking between ZoneLites then please refer to 'using the link port' on page 34 and 35

28					Con	figurat	ion D -	detail	ed overv	iew				
723450	The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.													
											Symbol Key The channel the luminaire needs to connect to.	•		
Space	4 (Notional Corrido	orl	4 _D	S Port D	4 _D		4 _D	S Port D	4 _D	4 _D	D' denotes dimmable luminaire otherwise non-dimmable			
	1		1 _D		2		2 _		3	3,	Shading represents brightness (to indicate daylight linking in action) S fzh/pir Master occupancy			
Space		S Port A	1 _D	Spa	2 D ce 2 (Work station)	Port B	2	Spac	3 D te 3 (Work station)	Port C	head fzh/pir/ls Master occupancy head + light sensing fzh/pir/sl	ł		
↓	Window Window Window Operation of space 1 [default] Window Window (work station) On entry of this space luminaires switch on to maximum. Image: Comparison of the space luminaires switch on to maximum.						Window Window Window S Slave occupancy head Operation of space 3 [default] (work station) On entry of this space luminaires switch on to maximum. S S							
	Luminaires daylight link according to the natural light level detected.				Luminaires daylight link according to the natural light level detected.									
1+	On exit of this space (after time-out) luminaires switch off.			[+	On exit of this space (after time-out) luminaires switch off.									
∫↓ →	 Operation of space 2 [default] (work station) On entry of this space luminaires switch on to maximum. 			∕∎⇒	Operation of space 4 [default] (notional corridor) On entry of this or ANY other space all luminaires switch on.									
	Luminaires daylight link according to the natural light level detected.				As drawn no daylight linking is required but is an									
[On exit of this space (after time-out) luminaires switch off. 			[+	available option - see table below On exit of this and all other spaces (after time- outs) luminaires switch off.									

If ZoneLites with this same configuration (config. D) are required to be networked together to expand the 'notional corridor' principle i.e. Open plan multiple spaces where occupancy anywhere holds all luminaires designated a notional corridor illuminated. see page 35, networking open plan areas section

Table 1	Other available operational variations	Action						
Daylight linking i a space where i	is not required in a space where it is shown OR is required in t is not shown.	Change the head to occupancy only fzh/pir (for no daylight linking) or change the head to occupancy + light level fzh/pir/ls (for daylight linking)						
There are more	luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)						
There is insuffici 5.66m x 7.42m	ient occupancy coverage for the space. (range is typically per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)						
	king group is too big to rely on one light level reading to be so be sampled at both ends.	Add a special fzh/ls (light sensing only head) to port B. This will work with the existing fzh/pir/ls to average the light levels at both points.						
The dimming pro mixture of both).	otocol of the luminaires is DSI and not DALI (or there is a	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069						
This room (and	others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.						
This room (and remote from this	others?) require a 'last man out' or 'all lights on' switch s area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.						



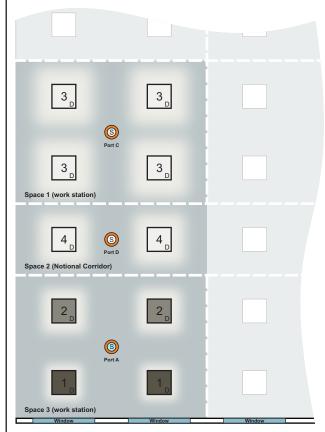
If any of *Emergency Test, Last man out* or *All lights on* switch inputs are required, or if networking between ZoneLites then please refer to 'using the link port' on page 34 and 35



Configuration E - detailed overview



The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptions that may be possible and if so how they can be accommodated.



Operation of space 1 [default] (work station) On entry of this space luminaires switch on to maximum.



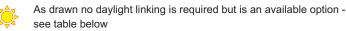
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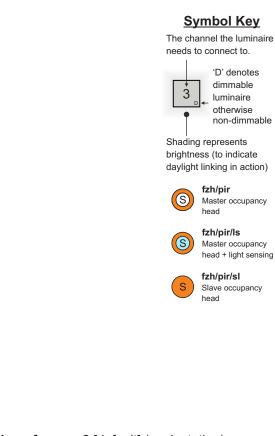
As drawn no daylight linking is required but is an available option - see table below

On exit of this space (after time-out) luminaires switch off.

Operation of space 2 [default] (notional corridor) On entry of this or ANY other space all luminaires switch on.



On exit of this and all other spaces (after time-outs) luminaires switch off.





Operation of space 3 [default] (work station) On entry of this space luminaires switch on to maximum.

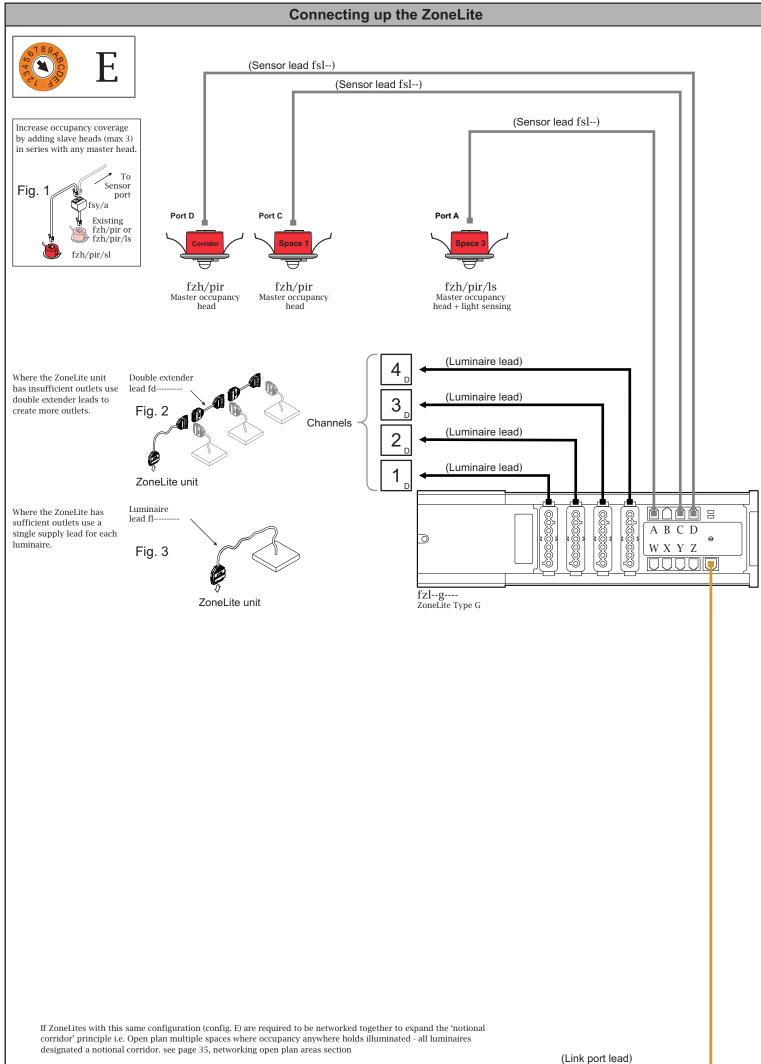


2 stage daylight linking - The window row daylight links whilst the back row adopts a brighter offset (adjustable).



On exit of this space (after time-out) luminaires switch off.

Table 1	Other available operational variations	Action					
	ng is not required in a space where it is shown OR is required in re it is not shown.	Change the head to occupancy only fzh/pir (for no daylight linking) or change the head to occupancy + light level fzh/pir/ls (for daylight linking)					
There are mo	ore luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)					
There is insu 5.66m x 7.42	fficient occupancy coverage for the space. (range is typically $2m$ per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl link leads. (fig. 1)					
	linking group is too big to rely on one light level reading to be eds to be sampled at both ends.	Add a special fzh/ls (light sensing only head) to port B. This will work with the existing fzh/pir/ls to average the light levels at both points.					
The dimming mixture of bo	protocol of the luminaires is DSI and not DALI (or there is a oth).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See <i>Setting up</i> leaflet 22/069					
This room (a	nd others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a standard emergency test key switch - see page 34 & 35 for further details.					
This room (a remote from	nd others?) require a 'last man out' or 'all lights on' switch this area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.					



If any of Emergency Test, Last man out or All lights on switch inputs are required, or if networking between ZoneLites then please refer to 'using the link port' on page 34 and 35

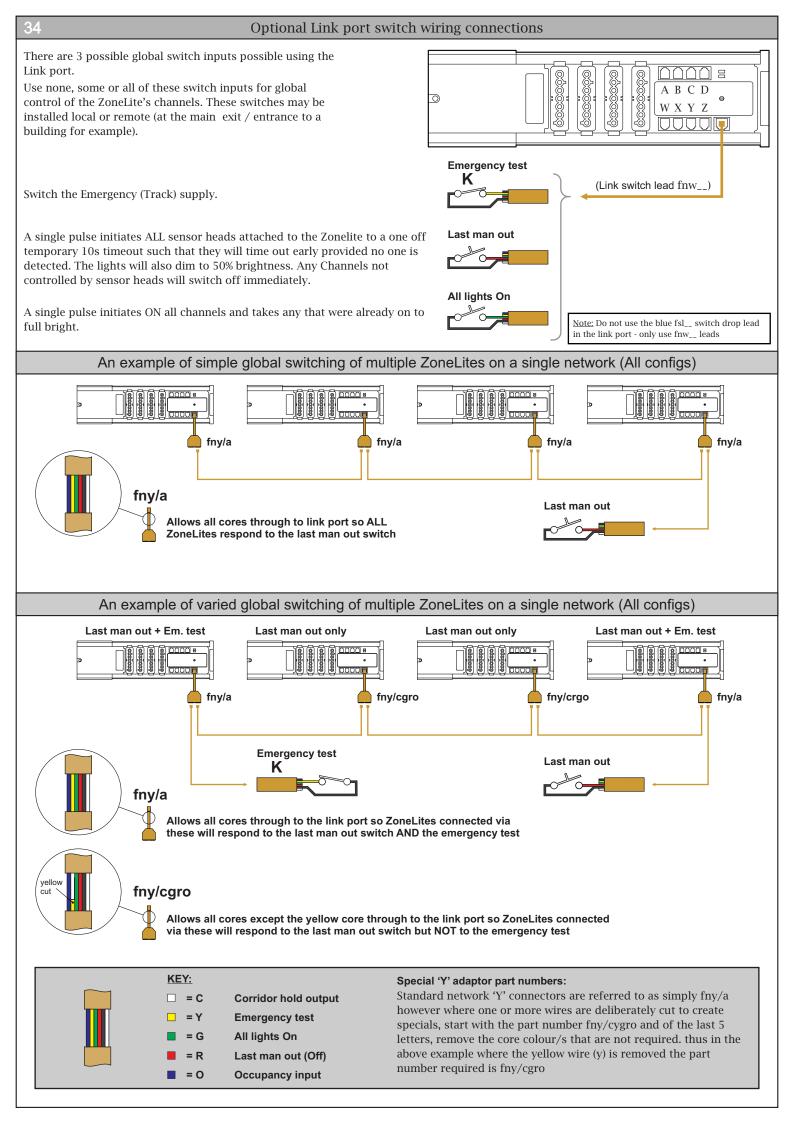


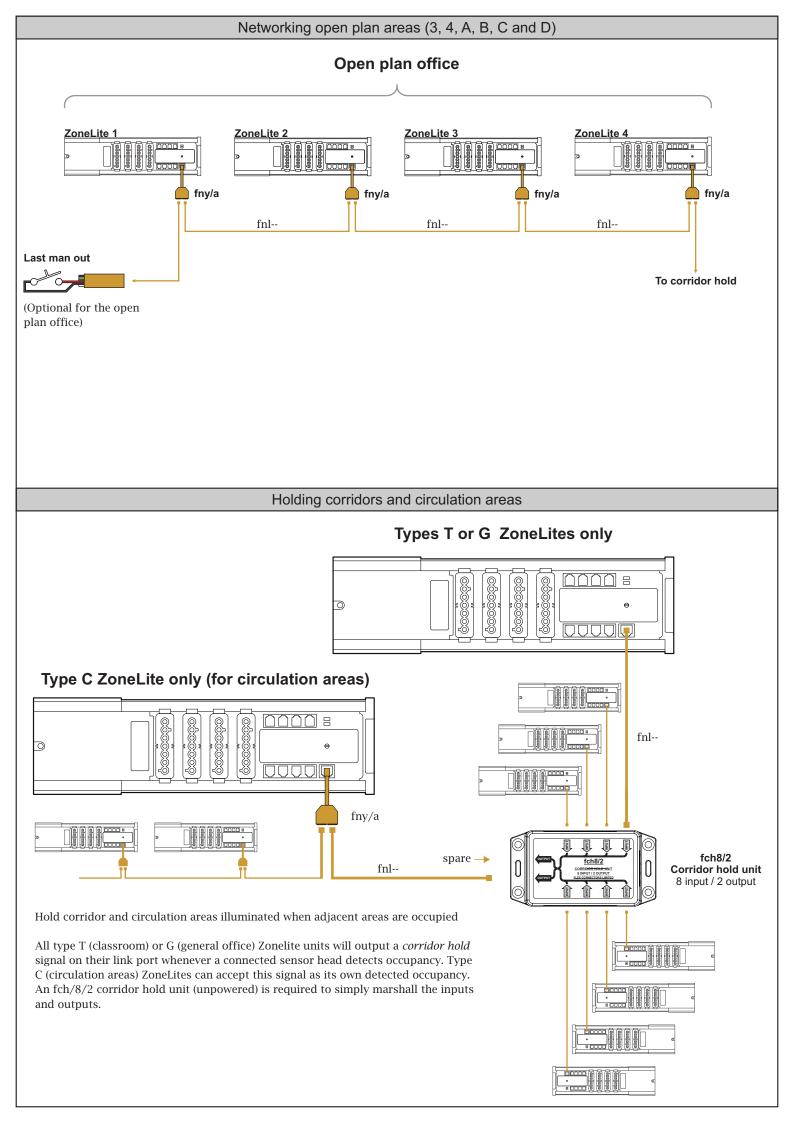
IMPORTANT: Configuration F is usually reserved for customized user specific configurations. On some occasions when not required for this purpose, the default configuration below <u>may</u> be installed instead.

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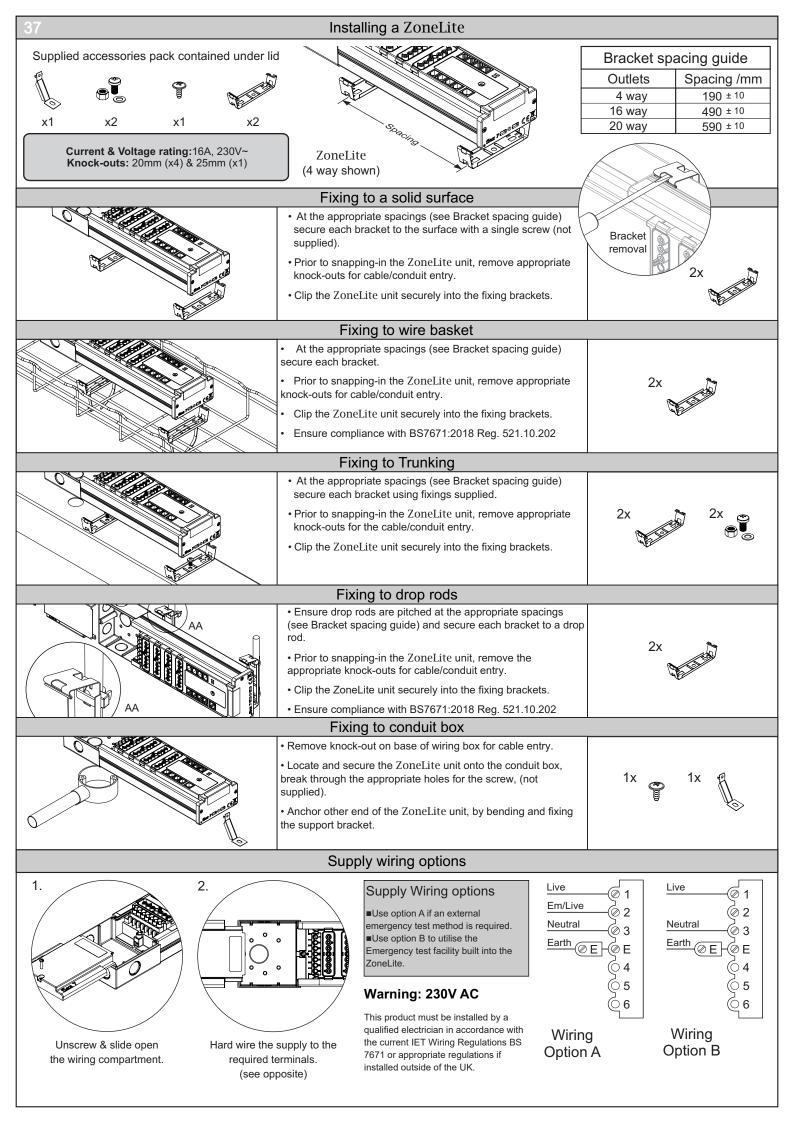


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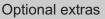




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Trouble shooting guide												
	Check power is on and is correctly connected to the ZoneLite - The green LED should be illuminated	Are the luminaires wired up correctly and plugged into the correct ZoneLite channels	Has the correct configuration been set on the configuration selector switch.	Restart the ZoneLite if altering the configuration switch. See 'configuration settings' in leaflet 22/069	Check: Switch wiring, Is it the correct type of switch and is the switch drop plugged into the correct port - see chosen configuration for help	Are the channels configured to output the correct dimming protocols to suit your luminaires. See setting up leaflet 22/069 for assigning channels to DSI or DALI	Are the luminaire leads wired correctly for dimming. Ensure pins 5 (+ve) & 6 (-ve) feed the dimming input to the luminaire.	Has the daylight level been set up - See setting up leaflet 22/069	check that the ZoneLite is not in test mode. See leaflet 22/069 for details	Enable daylight link to off, if available on your configuration. see leaflet 22/069 for details	Check that the sensor is plugged into the correct sensor port. See chosen configuration.	Check that the sensors blue LED is periodically flashing
Lights will not operate at all - nothing is happening	•	•	•									
Some switches operate correctly but others do not			•	•	•							
Lights flicker or do not dim correctly						•	•					
Lights switch but will not dim at all			•	•		•						
Lights that should daylight link either don't or are not working as expected.			•	•		•		•				
The lights keep timing out to quickly									•			
The lights will not time-out		•									•	•
The lights will not switch off when it is extremely bright outside. They just remain at a dim level.										•		



at.



User Remote Control - frc/user

The frc/user remote control is a convenient method for the user to control the lighting remotely. Lights can be temporarily overridden ON or OFF dimmed UP or DOWN. In addition, up to six preset light levels can be stored and recalled.



PELV - Switch Drop

To add additional switches a PELV switch drop lead and a fsy/a will be required to connect the additional switch to the control unit.

Fsy/a

Fsy/a

If your room requires additional sensor heads (fnh/slave) or additional switch drops you will require an fsy/a to link your additional cables into.

Technical

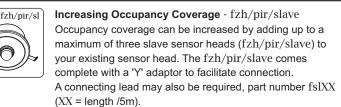
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Nominal 230V~ 16A, 50Hz, Class 1
Manufactured in black PA6 UL94 V-0 rated, PC/ABS, and Anodised
Aluminium.
7 contacts per outlet, each rated at 16 amps, using the Flex7 outlet form
Total system rating 16A

Operating range -10 to 40°C

3 x 2.50mm², 2 x 4.00mm² or 1 x 6.00mm² conductors

flex7, Ruscombe Business Park, Ruscombe Lane, Twyford, Berkshire RG10 9LR, UK Telephone: +44 (0) 20 8580 1066 Fax: +44 (0) 20 8580 1062 Website: www.flex7.co.uk Email: info@flex7.co.uk Leaflet reference number: 22/084 issue 5 09/08/2017



Increasing Occupancy Coverage -



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Occupancy coverage can be increased by adding up to a maximum of three slave sensor heads (fzh/pir/sl) to your existing sensor head. The fzh/pir/sl comes complete with a 'Y' adaptor to facilitate connection.

A connecting lead may also be required, part number fslXX (XX = length /5m).

Per Channel Load	
Fluorescent & Incandescent Lighting	: 6A
Compact Fluorescent Lighting	: 3A
IP20	
LVD-2006/95/EC Compliance	
EMC-2004/108/EC Compliance	
Maximum number of Ballasts	
DSI Digital control	: 25
DALI Digital control	: 25

Due to continual product improvement flex7 reserves the right to alter the specification of this product without prior notice.